Service Manual

SR14 /K1G, /N1G, /S1G

AV Surround Receiver

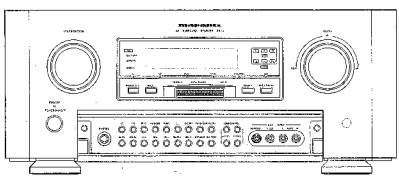


TABLE OF CONTENTS

SECTION	PAGE
1. TECHNICAL SPECIFICATIONS	1
2. WIRING DIAGRAM	3
3. BLOCK DIAGRAM	5
4. SCHEMATIC DIAGRAM	7
5. PARTS LOCATION (Pattern Side)	25
6. IC DATA	45
7. EXPLODED VIEW AND PARTS LIST	53
8. SERVICE PROGRAM	57
9. ELECTRICAL ADJUSTMENTS	59
10. ALIGNMENT PROCEDURES	61
11. TROUBLE SHOOTING	63
12. TECHNICAL DESCRIPTION FOR DECODER	66
13. ELECTRICAL PARTS LIST	68

Please use this service manual with referring to the user guide (D.F.U.) without fail.

marantz®

SR-14

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

USA
MARANTZ AMERICA, INC.
440 MEDINAH ROAD
ROSELLE, ILLINOIS 60172
USA
PHONE : 630 - 307 - 3100
FAX : 630 - 307 - 2687

EUROPE / TRADING
MARANTZ EUROPE B.V.
P.O.BOX 80002, BUILDING SFF2
5600 JB EINDHOVEN
THE NETHERLANDS
PHONE : +31 - 40 - 2732241
FAX : +31 - 40 - 2735578

BRAZIL
MARANTZ BRAZIL
CAIXA POSTAL 21462
CEP 04698-970
SAO PAULO, SP, BRAZIL
PHONE : 0800 - 123123(Discagem Direta Gratuita)
FAX : +55 11 534. 8668

PROFESSIONAL **AMERICAS**
SUPERSCOPE TECHNOLOGIES, INC.
MARANTZ PROFESSIONAL PRODUCTS
2640 WHITE OAK CIRCLE, SUITE A
AURORA, ILLINOIS 60504 USA
PHONE : 630 - 820 - 4800
FAX : 630 - 820 - 8103

CANADA
LENBROOK INDUSTRIES LIMITED
633 GRANITE COURT,
PICKERING, ONTARIO L1W 3K1
CANADA
PHONE : 905 - 831 - 6333
FAX : 905 - 831 - 6936

AUSTRALIA
JAMO AUSTRALIA PTY LTD
1 EXPO COURT, P.O. BOX 350
MT. WAVERLEY VIC 3149
AUSTRALIA
PHONE : +61 - 3 - 9543 - 1522
FAX : +61 - 3 - 9543 - 3677

THAILAND
MRZ STANDARD CO.,LTD
746 - 754 MAHACHAI ROAD.,
WANGBURAPAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
PHONE : +66 - 2 - 222 9181
FAX : +66 - 2 - 224 6795

SINGAPORE
WO KEE HONG (S) PTE LTD
WO KEE HONG CENTRE
NO.23, LORONG 8, TOA PAYOH
SINGAPORE 319257
PHONE : +65 2544555
FAX : +65 2502213

NEW ZEALAND
WILDASH AUDIO SYSTEMS NZ
14 MALVERN ROAD MT ALBERT
AUCKLAND NEW ZEALAND
PHONE : +64 - 9 - 8451958
FAX : +64 - 9 - 8463554

TAIWAN
PAI- YUING CO., LTD.
6 TH FL NO. 148 SUNG KIANG ROAD,
TAIPEI, 10429, TAIWAN R.O.C.
PHONE : +886 - 2 - 25221304
FAX : +886 - 2 - 25630415

MALAYSIA
WO KEE HONG ELECTRONICS SDN. BHD.
SUITE 8.1, LEVEL 8, MENARA GENESIS,
NO. 33, JALAN SULTAN ISMAIL,
50250 KUALA LUMPUR, MALAYSIA
PHONE : +60 3 - 2457677
FAX : +60 3 - 2458180

JAPAN *Technical*
MARANTZ JAPAN, INC.
35- 1, 7- CHOME, SAGAMIONO
SAGAMIHARA - SHI, KANAGAWA
JAPAN 228-8505
PHONE : +81 42 748 1013
FAX : +81 42 741 9190

日本マランツ株式会社
本 社 〒228-8505
神奈川県相模原市相模大野7-35-1
営業本部 〒150-0022
東京都渋谷区恵比寿南1-11-9

KOREA
MK ENTERPRISES LTD.
ROOM 604/605, ELECTRO-OFFICETEL, 16-58,
3GA, HANGANG-RO, YONGSAN-KU, SEOUL
KOREA
PHONE : +822 - 3232 - 155
FAX : +822 - 3232 - 154

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

FM TUNER SECTION

Frequency Range ..... 87.5 ~ 108.0 MHz
Usable Sensitivity ..... IHF 1.8 μV/16.4 dBf
Signal to Noise Ratio ..... Mono/Stereo 76/72 dB
Distortion ..... Mono/Stereo 0.2 / 0.3 %
Stereo Separation ..... 1 kHz 45 dB
Alternate Channel Selectivity ..... ±400 kHz 60 dB (U version)
±300 kHz 60 dB (K, N, S version)
Image Rejection ..... 98 MHz 70dB
Tuner Output Level ..... 1 kHz, 75 kHz Dev 800 mV (U version)
1 kHz, 40 kHz Dev 800 mV (K, N, S version)

AM/LW TUNER SECTION

Frequency Range ..... AM(MW) : 520 ~ 1710 kHz (U version)
531 ~ 1602 or 520 ~ 1710 kHz (K version)
531 ~ 1602 kHz (N, S version)
LW : 152 ~ 282 kHz (N version)
Signal to Noise Ratio ..... 50 dB
Usable Sensitivity ..... Loop 400 μV
Distortion ..... 400 Hz, 30% Mod. 0.5%
Selectivity ..... ±20 kHz 70 dB (U version)
±18 kHz 70 dB (K, N, S version)

AUDIO SECTION

Rated Power
Stereo Mode FRONT (20 Hz ~ 20 kHz) ..... 8 ohms 140W / Ch (2ch driven)
Center (40 Hz ~ 20 kHz) ..... 8 ohms 140W / Ch
Surround ..... 8 ohms 140W / Ch
THD Front (20 Hz ~ 20 kHz) ..... 8 ohms 0.05%
Input Sensitivity/Impedance
Linear ..... 350mV/47 kohms
Signal to Noise Rate (IHF A)
Linear ..... 85 dB
Dolby Surround Adjacent Channels Separation ..... 55 dB

VIDEO

Television Format ..... NTSC (U version)
PAL/NTSC (K, N, S version)
Input Level/Impedance ..... 1 Vp-p/75 ohms
Output Level/Impedance ..... 1 Vp-p/75 ohms
Video Frequency Response ..... 5 Hz to 8 MHz (~ 1 dB)
S/N ..... 60 dB

GENERAL

Power Requirement ..... AC 120V 60 Hz (U version)
AC 220 50/60 Hz (K version)
AC 230V 50 Hz (N, S version)

Power Consumption 470W
Dimension (MAX)
Width ..... 18 inches (458 mm)
Height ..... 7-½ inches (190 mm)
Depth ..... 19-½ inches (496 mm)
Weight ..... 58.4 ids. (26.5 kg)

ACCESSORIES

Remote Control Unit RC-18SR ..... 1 (K, S version)

Dolby Digital(AC-3) SECTION

Output Level (Master Volume is set 0dB)
Front L/R, CENTER, SURROUND L/R
1 KHz, 0 dB FS INPUT 1.1V
SUBWOOFER
40 Hz, 0 dB FS INPUT 3.8V

Frequency Response
Front L/R, CENTER, SURROUND L/R (LARGE)
20 Hz ~ 20 KHz ..... -1dB

Total Harmonic Distortion
Front L/R, CENTER, SURROUND L/R (1 KHz) ..... 0.01% or less
SUBWOOFER (40 Hz) ..... 0.07% or less
Signal to Noise Ratio (IHF-A) ..... 96 dB
Channel Separation (1 KHz) ..... 70 dB

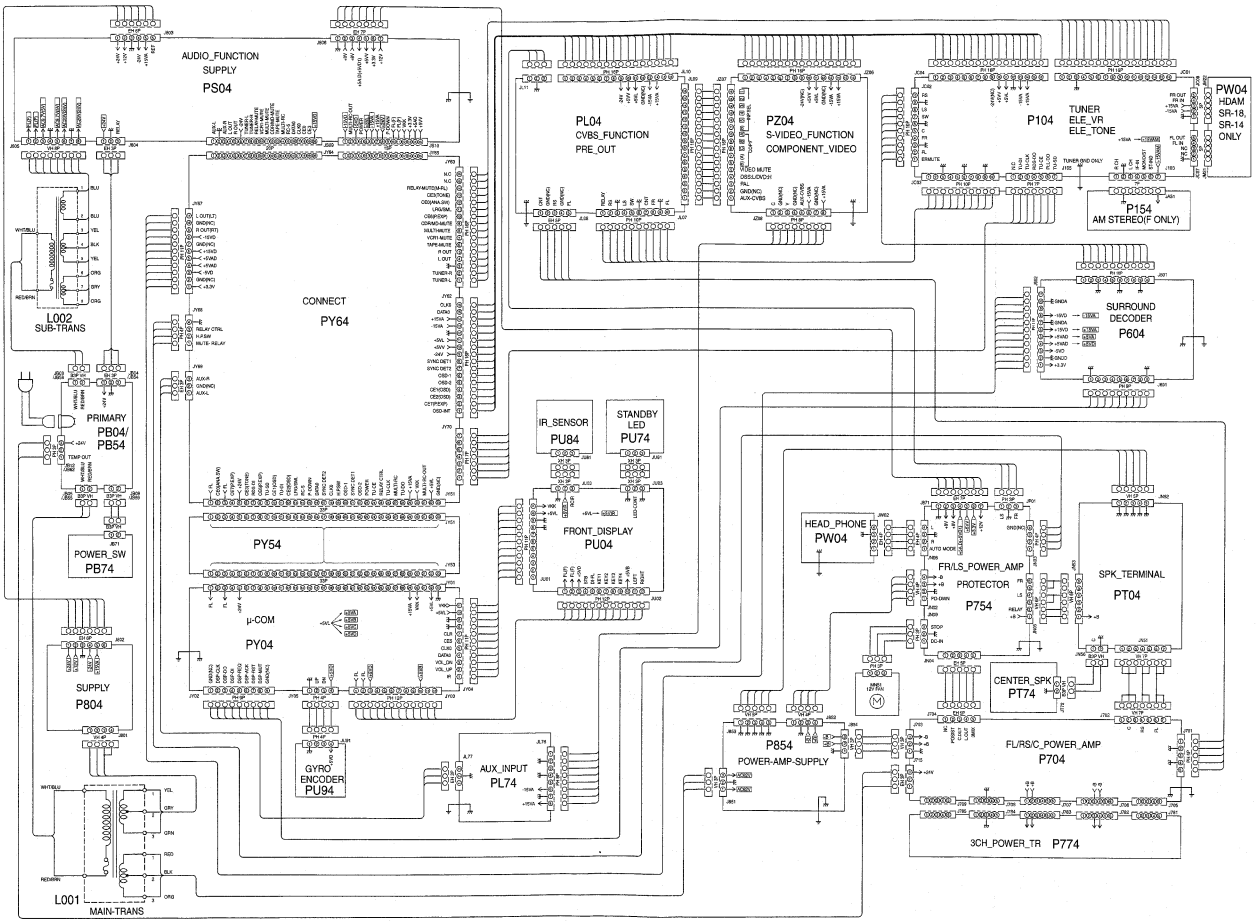
Specifications subject to change without prior notice.

Remark : Bass signal output from Sub Woofer terminal for SR-14

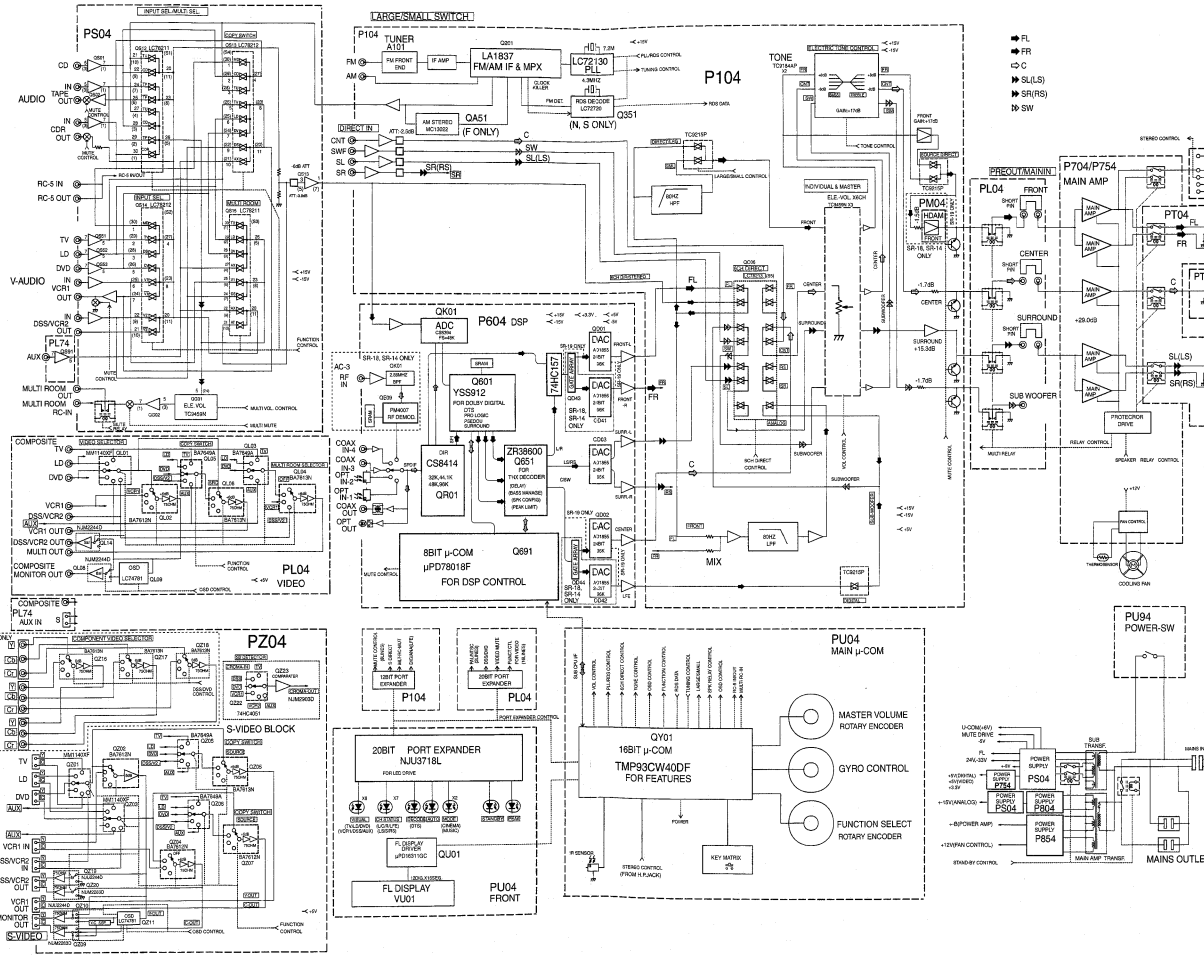
Sub woofer output is not active while all surround modes. Please refer to the following table.

SPK setup				SubWoofer Output by Surround mode						
Sub Woofer	Front	Center	Rear	THX cinema (5.1ch decoding)	DOLBY or DTS (5.1ch decoding)	THX cinema (Pro Logic decoding)	DOLBY (Pro Logic decoding)	STEREO	AUTO (5.1ch decoding)	AUTO (Stereo decoding)	Mono
ON	Large	Large	Large	LFE	LFE	none	none	L+R	LFE	L+R	none
			Small	LFE+L+SRS	LFE+L+SRS	none	none	L+R	LFE+L+SRS	L+R	none
			None	LFE	LFE	none	none	L+R	LFE	L+R	none
		Small	Large	LFE+C	LFE+C	C	C	L+R	LFE+C	L+R	C
			Small	LFE+C+LSRS	LFE+C+LSRS	C	C	L+R	LFE+C+LSRS	L+R	C
			None	LFE+C	LFE+C	C	C	L+R	LFE+C	L+R	C
		None	Large	LFE	LFE	none	none	L+R	LFE	L+R	none
			Small	LFE+LSRS	LFE+LSRS	none	none	L+R	LFE+LSRS	L+R	none
			None	LFE	LFE	none	none	L+R	LFE	L+R	none
	Small	Large	Large	LFE+L+R	LFE+L+R	L+R	L+R	L+R	LFE+L+R	L+R	none
			Small	LFE+L+R+LSRS	LFE+L+R+LSRS	L+R	L+R	L+R	LFE+L+R+LSRS	L+R	none e
			None	LFE+L+R	LFE+L+R	L+R	L+R	L+R	LFE+L+R	L+R	none
		Small	Large	LFE+L-R+C	LFE+L+R+C	L+R+C	L+R+C	L+R	LFE+L+R+C	L+R	C
			Small	LFE+L+R+C+LSRS	LFE+L+R+C+LSRS	L+R+C	L+R+C	L+R	LFE+L+R+C+LSRS	L+R	C
			None	LFE+L+R+C	LFE+L+R+C	L+R+C	L+R+C	L+R	LFE+L+R+C	L+R	C
		None	Large	LFE+L+R	LFE+L+R	L+R	L+R	L+R	LFE+L+R	L+R	C
			Small	LFE+L+SRS	LFE+L+SRS	L+R	L+R	L+R	LFE+L+SRS	L+R	C
			None	LFE+L+R	LFE+L+R	L+R	L+R	L+R	LFE+L+R	L+R	C
	Large	Large	Large	none	none	none	none	none	none	none	none
			Small	none	none	none	none	none	none	none	none
			None	none	none	none	none	none	none	none	none
		Small	Large	none	none	none	none	none	none	none	none
			Small	none	none	none	none	none	none	none	none
			None	none	none	none	none	none	none	none	none
		None	Large	none	none	none	none	none	none	none	none
			Small	none	none	none	none	none	none	none	none
			None	none	none	none	none	none	none	none	none
	Small	Large	Large	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
			Small	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
			None	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
		Small	Large	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
			Small	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
			None	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
		None	Large	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
			Small	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
			None	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited

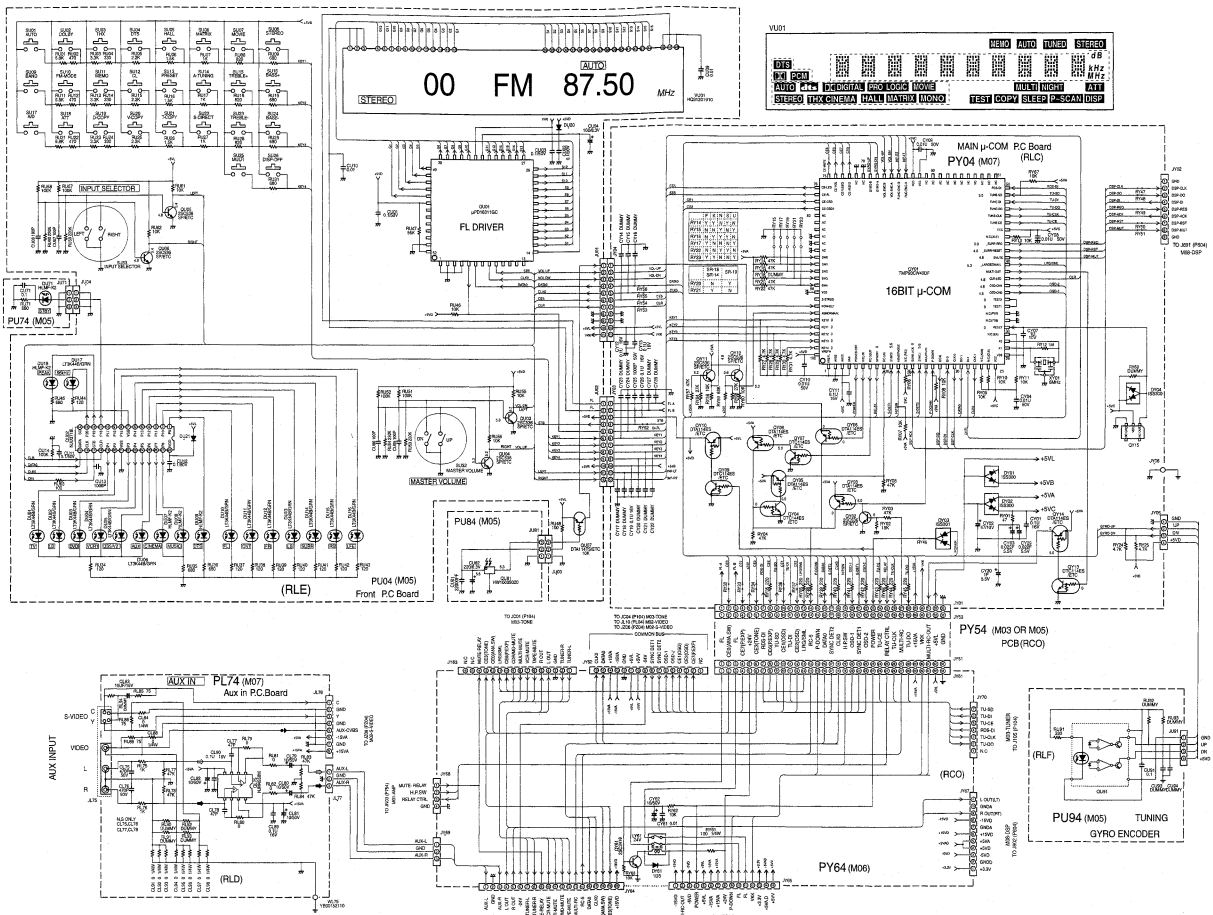
2. WIRING DIAGRAM

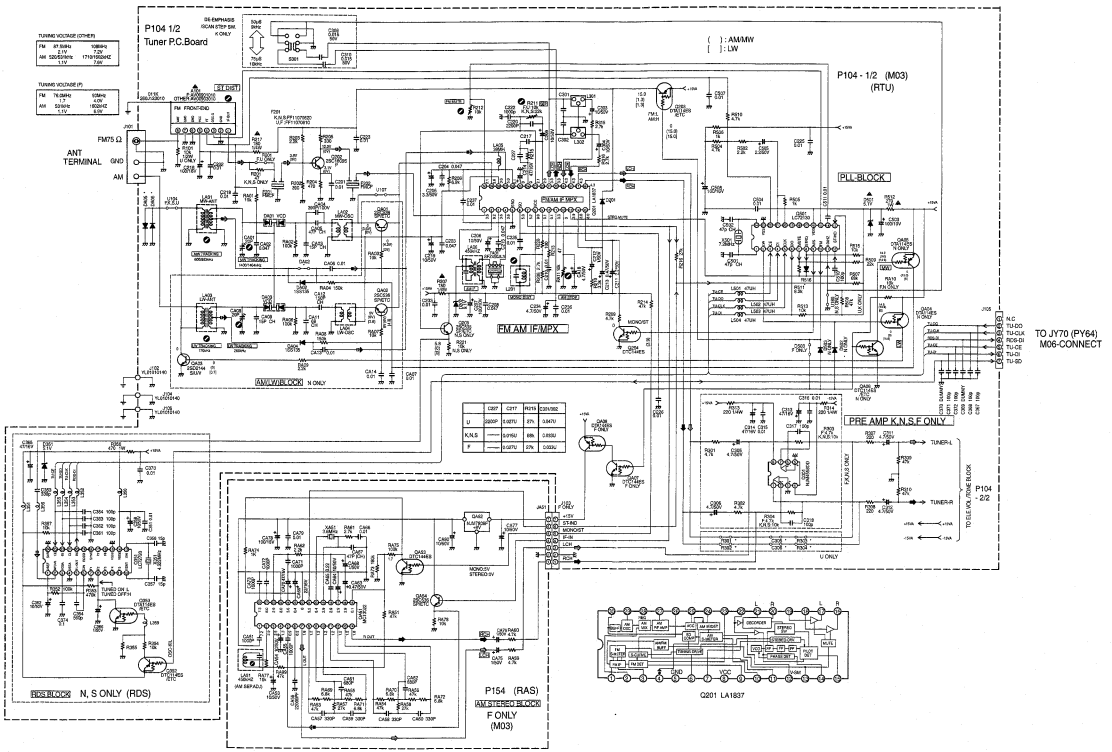


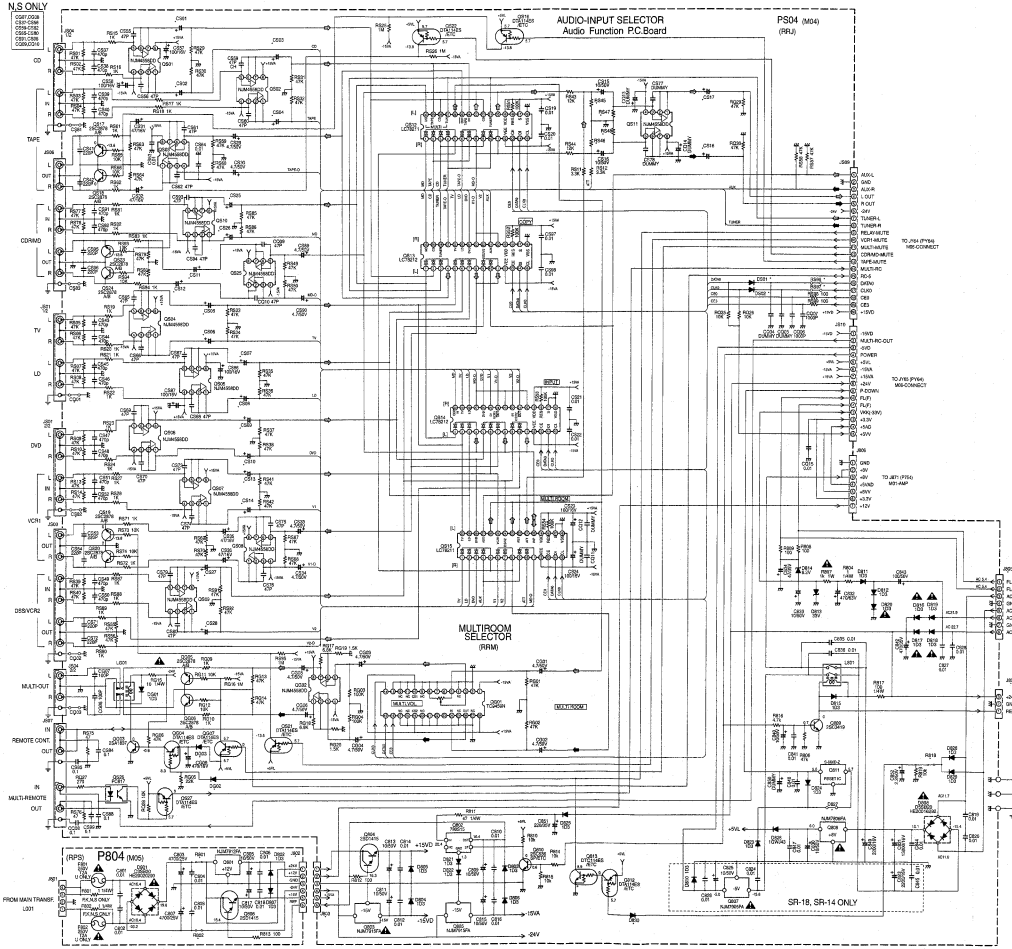
3. BLOCK DIAGRAM



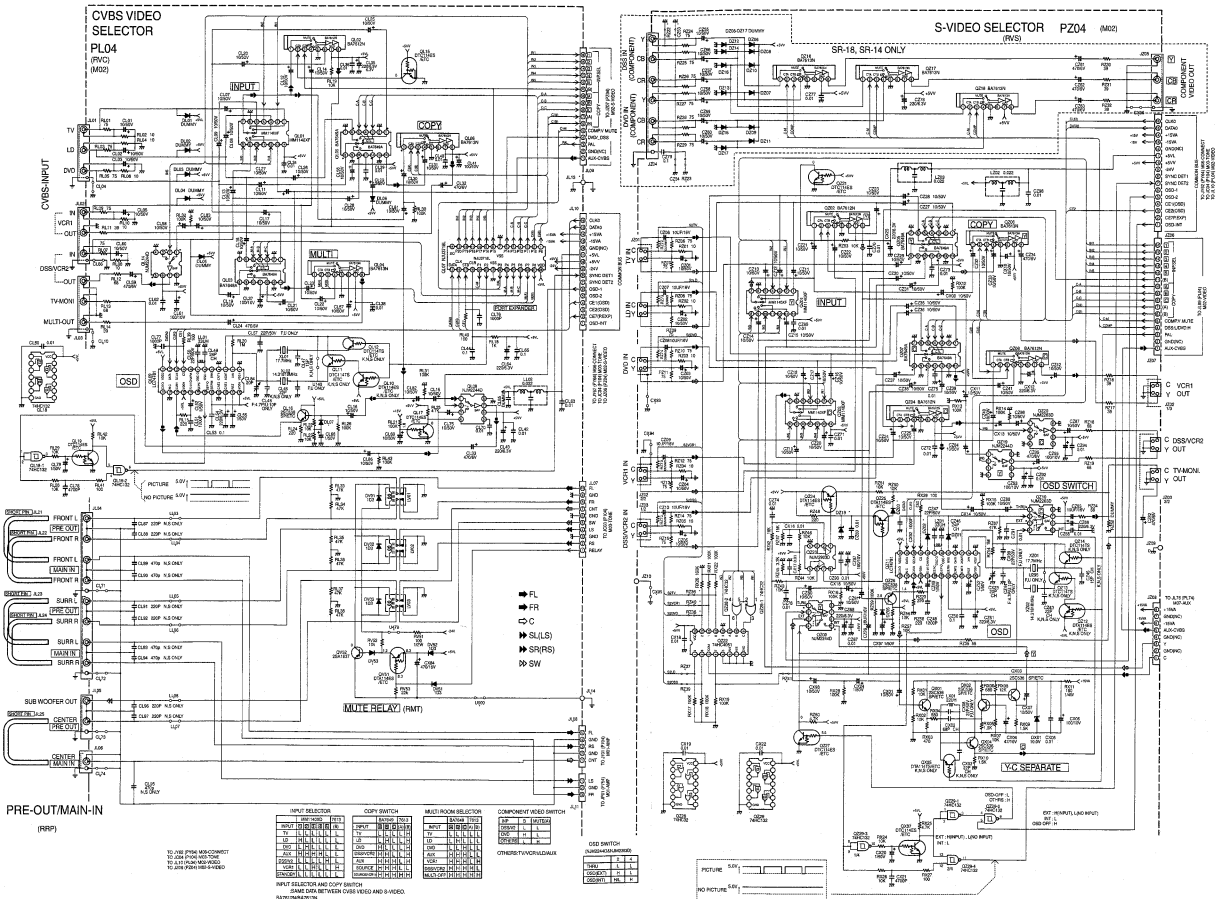
4. SCHEMATIC DIAGRAM

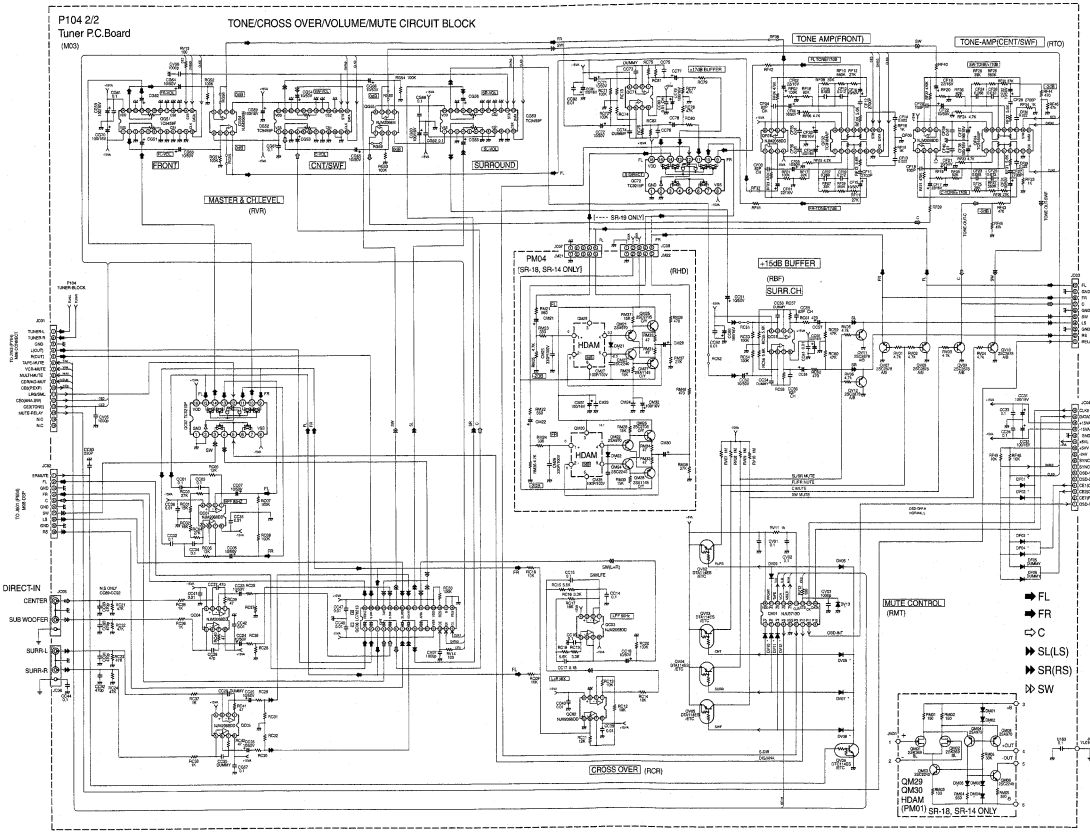



P104 1/2
Tuner P.C.Board
( ) : AM/MW
[ ] : LW
P104 - 1/2 (M03)
(RTU)
PLL BLOCK
FM AM IF/MPX
AM/LW BLOCK N ONLY
PRE AMP K,N,S,F ONLY
RDS BLOCK N, S ONLY (RDS)
P154 (RAS)
AM STEREO BLOCK
F ONLY
(M03)
Q201 LA1837
TO JY70 (PY64)
M06-CONNECT
P104
- 2/2
ANT
TERMINAL
FM75 Ω
GND
AM



PCB	NO.	SR-18	SR-14	SR-19
PS04	RS45	6.8k	6.8k	5.6k
PS04	RS46	6.8k	6.8k	5.6k
PS04	RS47	100k	100k	27k
PS04	RS48	100k	100k	27k
PS04	CS01	47/16v	22/35v	47/16v
PS04	CS02	47/16v	22/35v	47/16v
PS04	CS03	47/16v	22/35v	47/16v
PS04	CS04	47/16v	22/35v	47/16v
PS04	CS05	47/16v	22/35v	47/16v
PS04	CS06	47/16v	22/35v	47/16v
PS04	CS07	47/16v	22/35v	47/16v
PS04	CS08	47/16v	22/35v	47/16v
PS04	CS09	47/16v	22/35v	47/16v
PS04	CS10	47/16v	22/35v	47/16v
PS04	CS13	47/16v	22/35v	47/16v
PS04	CS14	47/16v	22/35v	47/16v
PS04	CS17	47/16v	22/25v	47/16v
PS04	CS18	47/16v	22/25v	47/16v
PS04	CS25	47/16v	22/25v	47/16v
PS04	CS26	47/16v	22/25v	47/16v
PS04	CS27	47/16v	22/25v	47/16v
PS04	CS28	47/16v	22/25v	47/16v

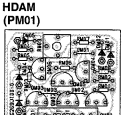

CVBS VIDEO SELECTOR
PL04
(RVC)
(M02)
CVBS-INPUT
INPUT
COPY
MULTI
OSD
MUTE RELAY (RMT)
PRE-OUT/MAIN-IN
(RRP)
S-VIDEO SELECTOR PZ04 (M02)
(RVS)
SR-18, SR-14 ONLY
COMPONENT VIDEO OUT
OSD SWITCH
Y-C SEPARATE
INPUT SELECTOR
COPY SWITCH
MULTI ROOM SELECTOR
COMPONENT VIDEO SWITCH
OSD SWITCH
PICTURE
NO PICTURE

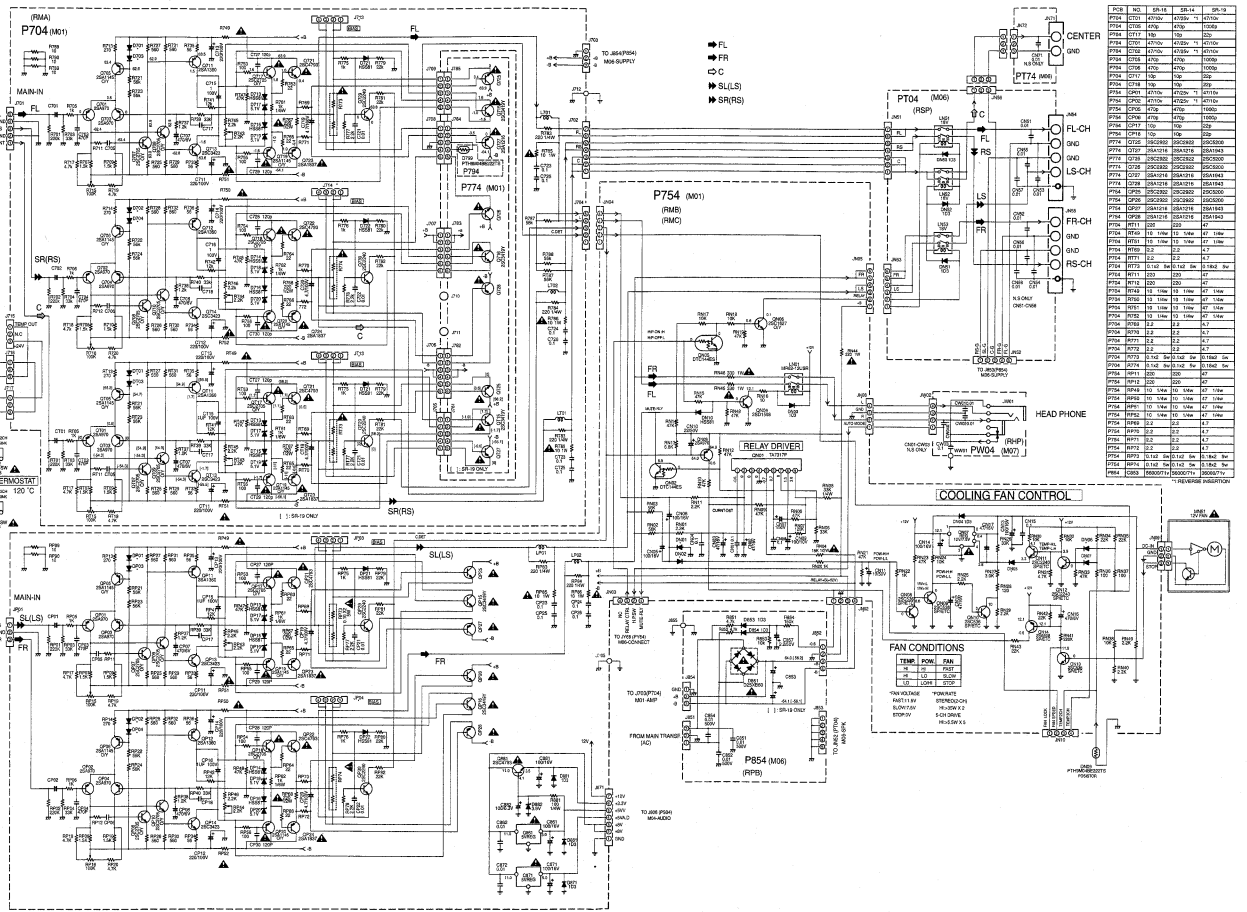


PCB	NO.	SR-18	SR-14	SR-19
P104	CC57	10/50v	10/16v	10/50v
P104	CC58	10/50v	10/16v	10/50v
P104	CC75	1000p	1000p	100p
P104	CC76	1000p	1000p	100p
P104	CC77	22/16v	22/16v	10/16v
P104	CC78	22/16v	22/16v	10/16v
P104	CG51	10/50v	22/25v	10/50v
P104	CG52	10/50v	22/25v	10/50v
P104	CG53	10/50v	22/25v	10/50v
P104	CG55	10/50v	22/25v	10/50v
P104	CG56	10/50v	22/25v	10/50v
P104	QC51	NJM2068DD	NJM2114D	NJM2068DD
P104	QC71	NJM2068DD	NJM2068DD	NJM2114D
P104	RC25	1k	1k	2.2k
P104	RC26	1k	1k	2.2k
P104	RC27	3.3k	3.3k	4.7k
P104	RC28	3.3k	3.3k	4.7k
P104	RC29	1k	1k	2.2k
P104	RC30	1k	1k	2.2k
P104	RC31	3.3k	3.3k	4.7k
P104	RC32	3.3k	3.3k	4.7k
P104	RC57	27k	27k	33k
P104	RC58	27k	27k	33k
P104	RC73	220	220	2.2k
P104	RC74	220	220	2.2k
P104	RC75	2.7k	2.7k	22k
P104	RC76	2.7k	2.7k	22k
P104	RC79	220	220	330
P104	RC80	220	220	330
P104	RC81	2.7k	2.7k	33k
P104	RC82	2.7k	2.7k	33k
P104	RF19	3.3k	3.3k	100k
P104	RF20	3.3k	3.3k	100k
P104	RF39	560	560	JUMPER
P104	RF40	560	560	JUMPER
P104	RF41	220	220	330
P104	RF42	220	220	330
PM04	CM21	22/16v	JUMPER	NON
PM04	CM22	22/16v	JUMPER	NON
PM04	CM23	0.01	NON	NON
PM04	CM24	0.01	NON	NON
PM04	CM29	10/50v	47/16v *1	NON
PM04	CM30	10/50v	47/16v *1	NON

*1 : REVERSE INSERTION

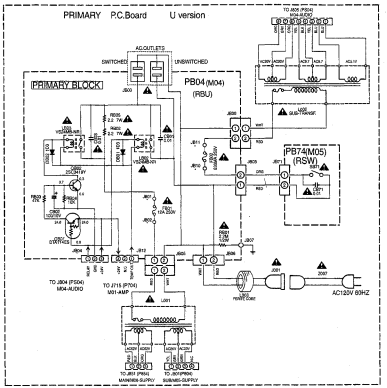
HDAM
(PM01)

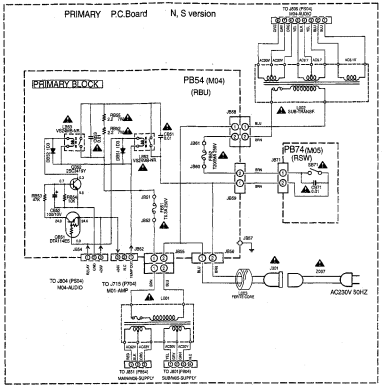


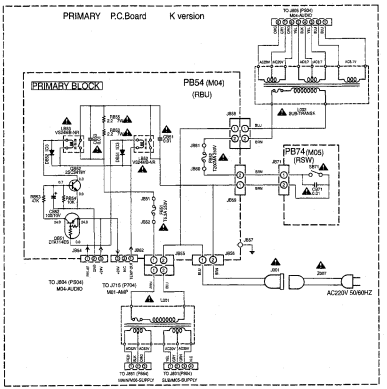


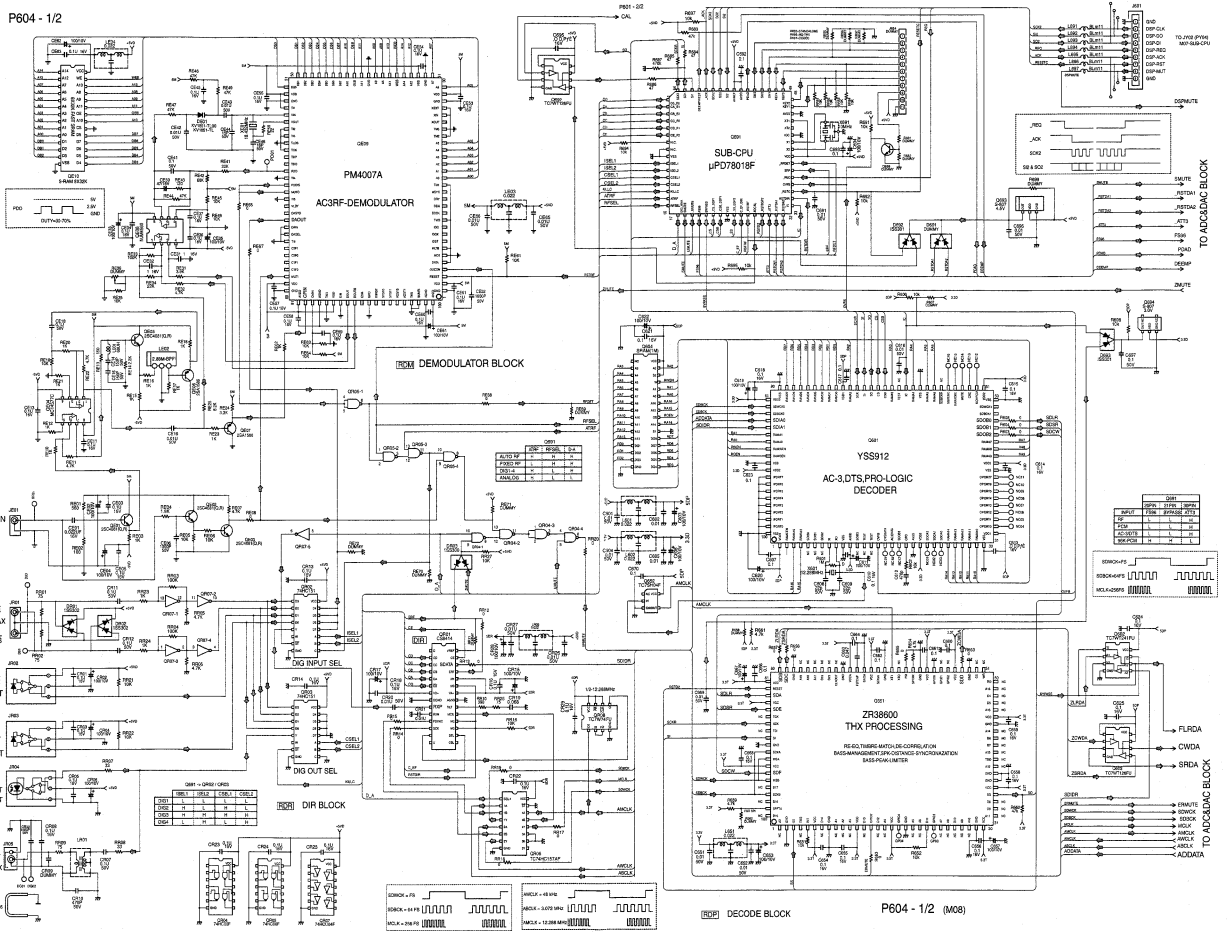
PCB	NO.	SR-16	SR-14	SR-19
P704	CT01	4700v	4700v *1	4700v
P704	CT05	470p	470p	1000p
P704	CT17	18p	18p	22p
P704	CT07	4700v	4700v *1	4700v
P704	CT62	4700v	4700v *1	4700v
P704	CT65	470p	470p	1000p
P704	CT06	470p	470p	1000p
P704	CT17	18p	18p	22p
P704	CR71	4700v	4700v *1	4700v
P704	CP02	4700v	4700v *1	4700v
P704	CP05	470p	470p	1000p
P704	CP06	470p	470p	1000p
P704	CP17	18p	18p	22p
P704	CP18	18p	18p	22p
P774	QT22	2SC2902	2SC2902	2SC5200
P774	QT26	2SA1216	2SA1216	2SA1943
P774	QT28	2SC2902	2SC2902	2SC5200
P774	QT25	2SC2902	2SC2902	2SC5200
P774	QT27	2SA1216	2SA1216	2SA1943
P774	QT29	2SA1216	2SA1216	2SA1943
P754	QP25	2SC2902	2SC2902	2SC5200
P754	QP26	2SC2902	2SC2902	2SC5200
P754	QP27	2SA1216	2SA1216	2SA1943
P754	QP28	2SA1216	2SA1216	2SA1943
P704	RT11	220	220	47
P704	RT10	10 1/4w	10 1/4w	47 1/4w
P704	RT01	10 1/4w	10 1/4w	47 1/4w
P754	RT55	2.2	2.2	4.7
P754	RT71	2.2	2.2	4.7
P704	RT72	0.1x2	5w 0.1x2	5w 0.18x2 5w
P704	RT11	220	220	47
P704	RT12	220	220	47
P704	RT43	10 1/4w	10 1/4w	47 1/4w
P704	RT50	10 1/4w	10 1/4w	47 1/4w
P704	RT51	10 1/4w	10 1/4w	47 1/4w
P704	RT52	10 1/4w	10 1/4w	47 1/4w
P704	RT63	2.2	2.2	4.7
P704	RT64	2.2	2.2	4.7
P704	RT71	2.2	2.2	4.7
P704	RT72	2.2	2.2	4.7
P704	RT73	0.1x2	5w 0.1x2	5w 0.18x2 5w
P704	RT74	0.1x2	5w 0.1x2	5w 0.18x2 5w
P754	RP11	220	220	47
P754	RP12	220	220	47
P754	RP49	10 1/4w	10 1/4w	47 1/4w
P754	RP50	10 1/4w	10 1/4w	47 1/4w
P754	RP51	10 1/4w	10 1/4w	47 1/4w
P754	RP52	10 1/4w	10 1/4w	47 1/4w
P754	RP61	2.2	2.2	4.7
P754	RP62	2.2	2.2	4.7
P754	RP63	2.2	2.2	4.7
P754	RP73	2.2	2.2	4.7
P754	RP74	2.2	2.2	4.7
P754	RP72	0.1	2.2	4.7
P754	RP73	0.1x2	5w 0.1x2	5w 0.18x2 5w
P754	RP74	0.1x2	5w 0.1x2	5w 0.18x2 5w
P854	QB53	2SD2011	2SD2011	2SD2011

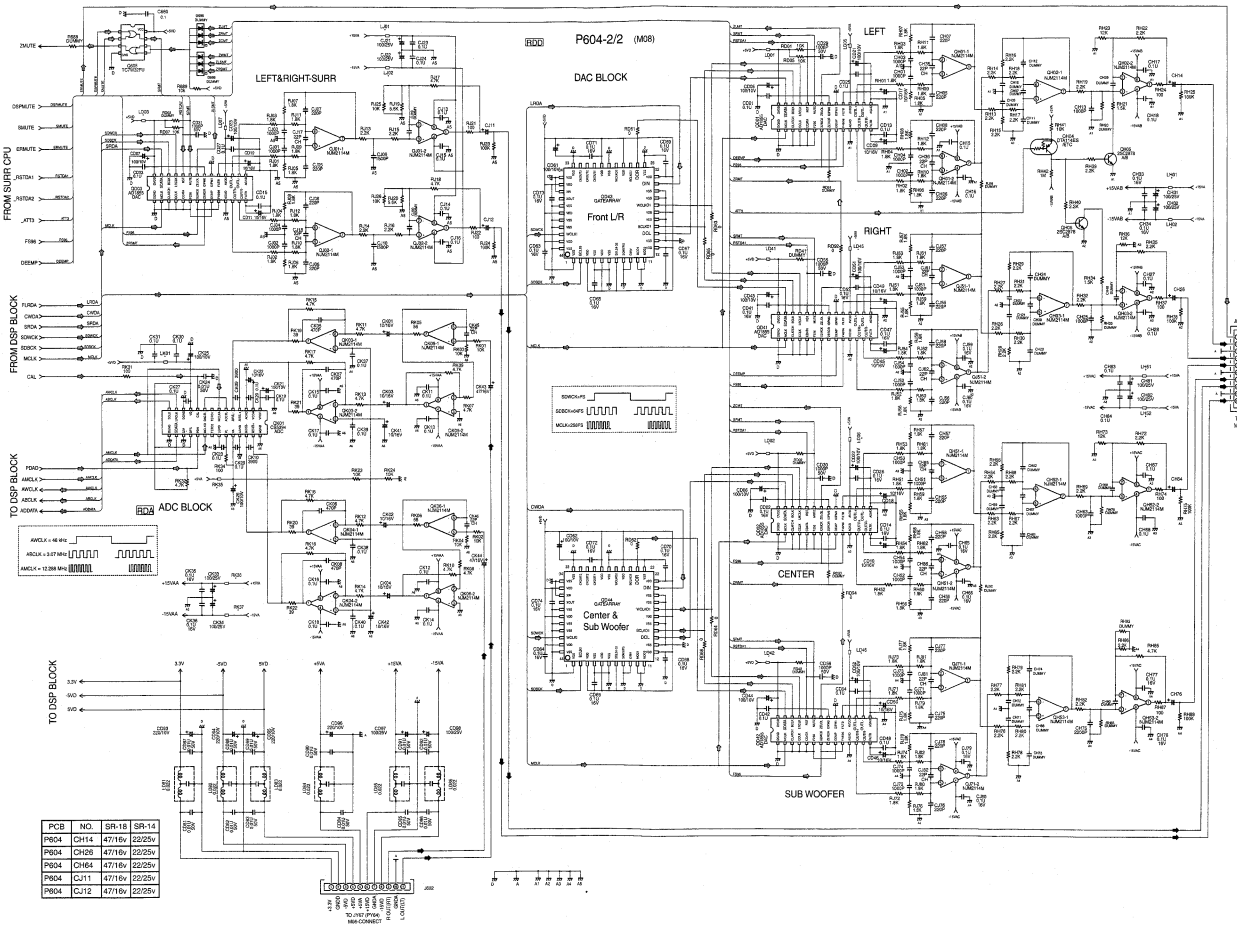
*1 REVERSE INSERTION


PRIMARY P.C.Board U version
PRIMARY BLOCK
PB04 (M04)
(RBU)
PB74(M05)
(RSW)
AC/OUTLETS
SWITCHED
UNSWITCHED
AC120V 60HZ


PRIMARY P.C.Board N, S version
PRIMARY BLOCK
PB54 (M04)
(RBU)
PB74 (M05)
(RSW)
AC230V 50HZ

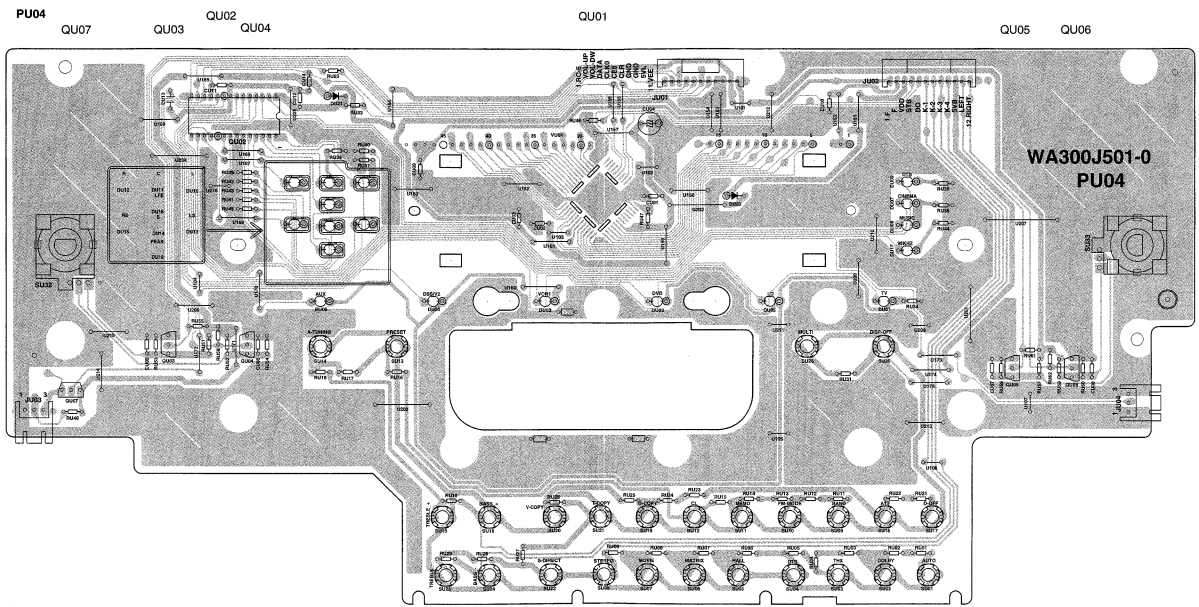

PRIMARY P.C.Board K version
PRIMARY BLOCK
PB54 (M04)
(RBU)
PB74 (M05)
(RSW)
AC230V 50/60HZ

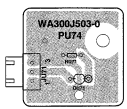

P604 - 1/2
PM4007A
AC3RF-DEMODULATOR
DEMODULATOR BLOCK
SUB-CPU
μPD78018F
TO ADC&DAC BLOCK
YSS912
AC-3,DTS,PRO-LOGIC
DECODER
ZR38600
THX PROCESSING
RF IN
DIGITAL INPUT-4 COAX
DIGITAL INPUT-3
DIGITAL INPUT-2 OPT
DIGITAL INPUT-1 OPT
DIGITAL-OUT OPT
DIGITAL-OUT COAX
DIG INPUT SEL
DIG OUT SEL
DIR BLOCK
DECODE BLOCK
P604 - 1/2 (M08)
TO ADC&DAC BLOCK

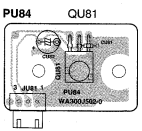


PCB	NO.	SR-18	SR-14
P604	CH14	47/16v	22/25v
P604	CH26	47/16v	22/25v
P604	CH64	47/16v	22/25v
P604	CJ11	47/16v	22/25v
P604	CJ12	47/16v	22/25v

5. PARTS LOCATION (Pattern Side)

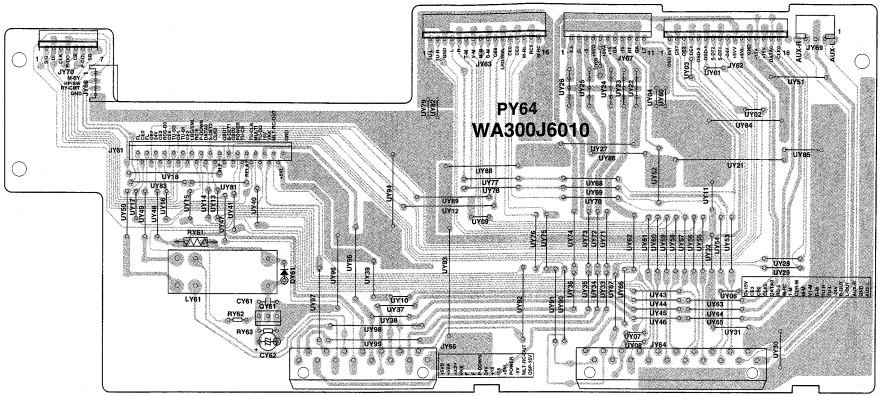






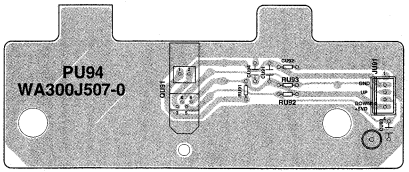
PY64

QY61



PU94

QU91

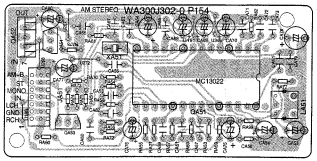


P154

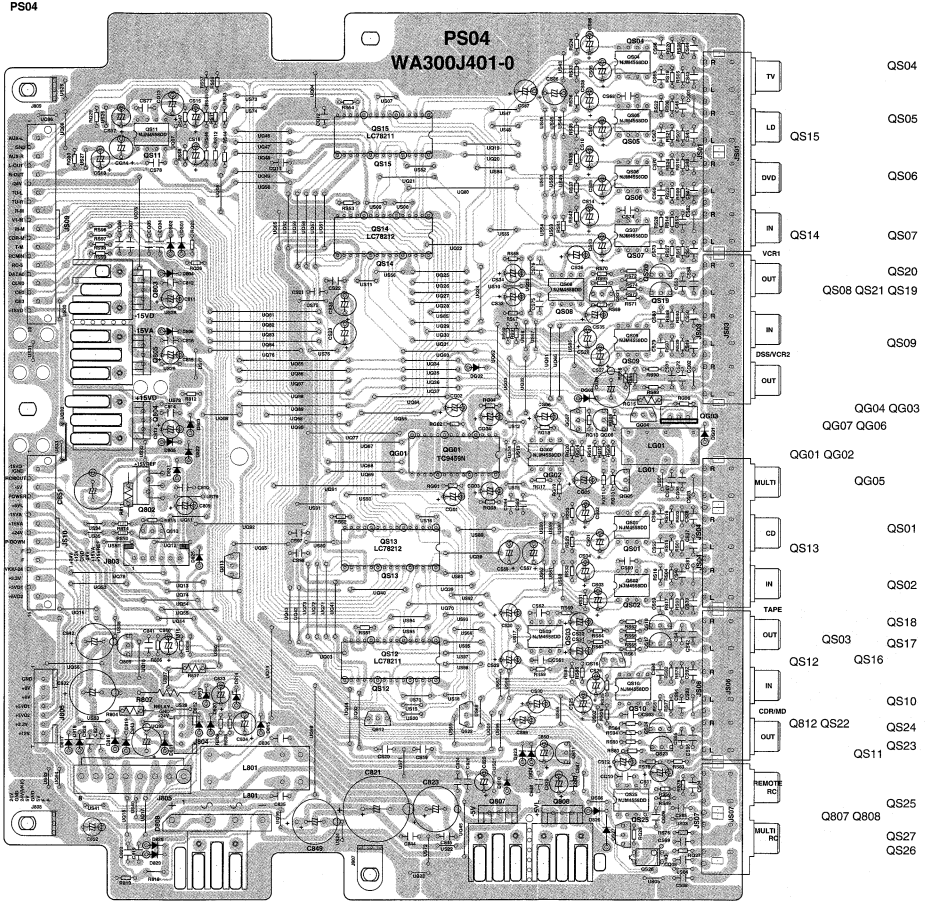
QA54

QA53

QA51



PS04



QS11

Q803

Q805

Q804

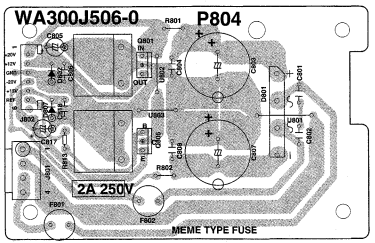
Q802

Q810

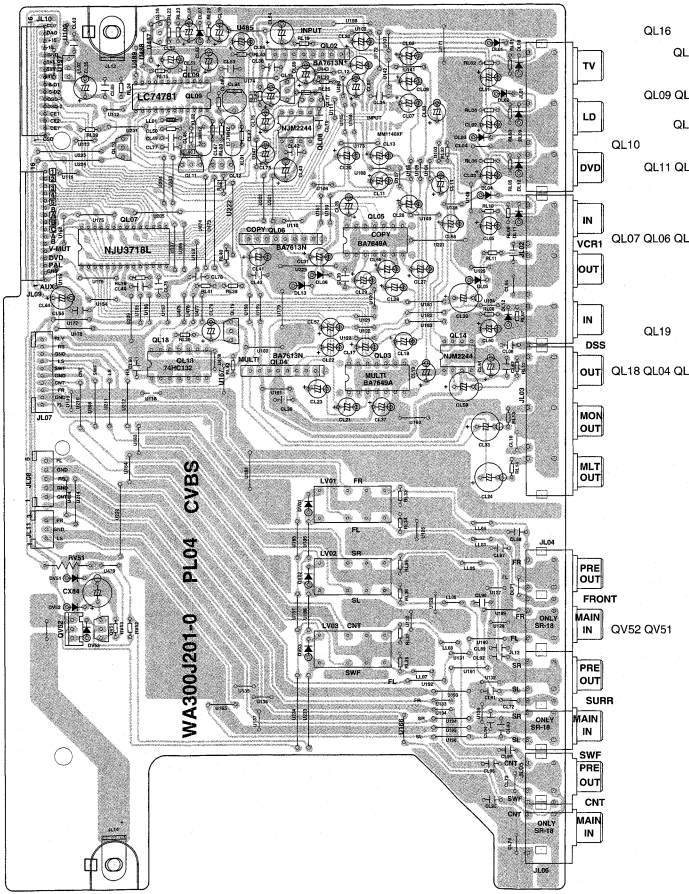
Q813

Q809

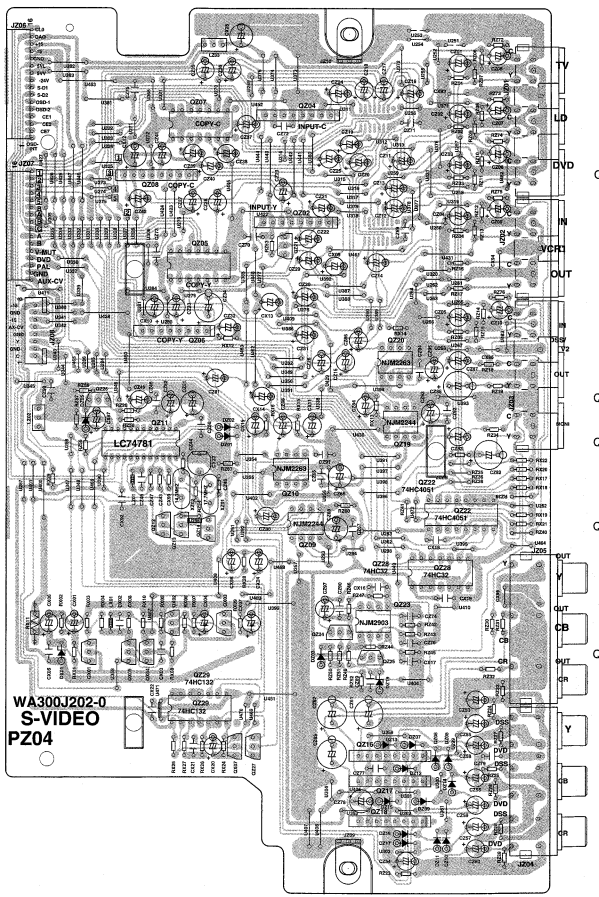
P804 Q801
Q806



PL04



PZ04



QZ07 QZ04

QZ08

QZ02

QZ21

QZ05

QZ06

QZ20

QZ26

QZ19

QZ11

QZ10

QZ22

QZ12 QZ13 QZ14 QZ09

QZ28

QZ23

QX02 QX03 QZ24

QX01 QX05 QX04 QZ25

QZ29

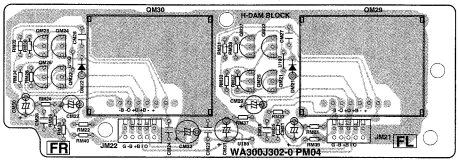
QX07 QX27 QZ16

QZ17

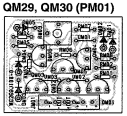
QZ18

PM04

QM28 QM24 QM30 QM29
QM26 QM22

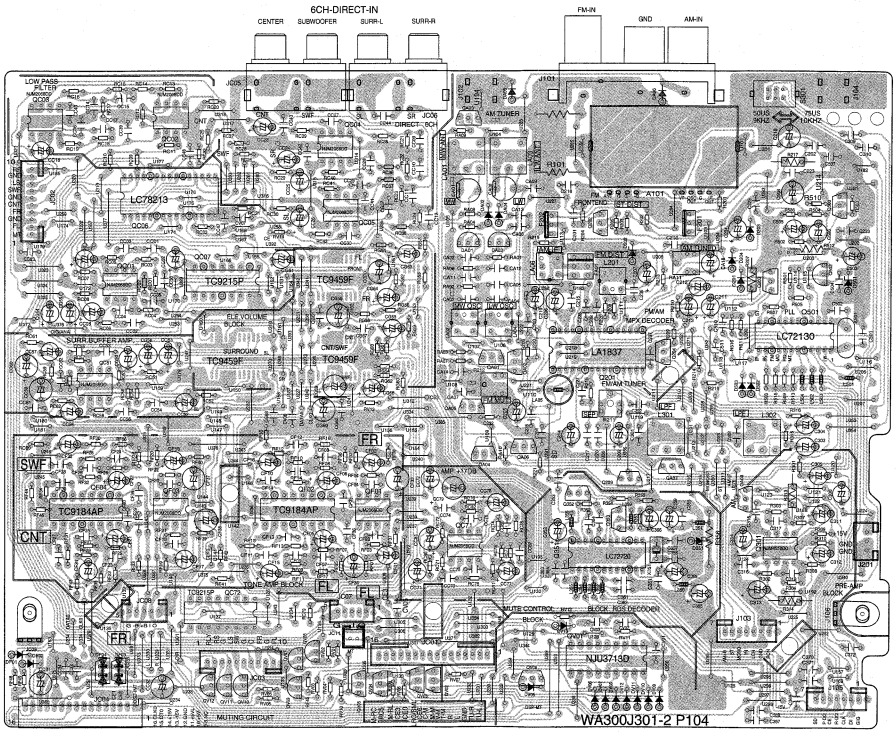


HDAM
QM29, QM30 (PM01)



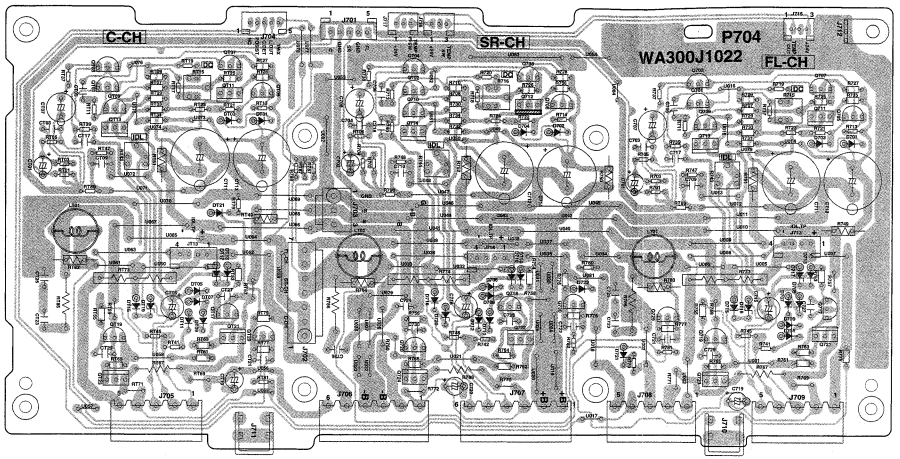
P104

QC03 QC02 QC04 QA03 Q202 Q503
QC01 QC06 QC07 QC05 QG51 Q201 Q204 Q203 Q502
QC51 QG53 QF02 QG52 QF01 QA05 QA01 QA02 Q352 Q353 Q209 QA07 QA08 Q501
QF04 QF03 QC72 QV07 QV08 QC71 QA04 QA06 Q301
QV12 QV11 QV10 QV09 QV05 QV04 QV03 QV02 QV06 QV01



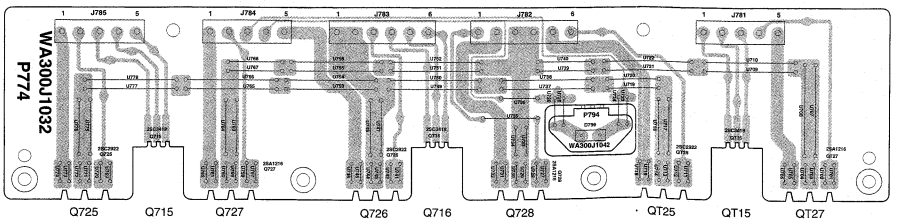
P704

QT03 QT01	QT07	Q704 Q702	Q708	Q703 Q701	Q707
QT09 QT13	QT11 QT05	Q710 Q714	Q712 Q706	Q709 Q713	Q711 Q705
QT19 QT23	QT17 QT21 QT29	Q720 Q724	Q718 Q722 Q730	Q728 Q719	Q717 Q721

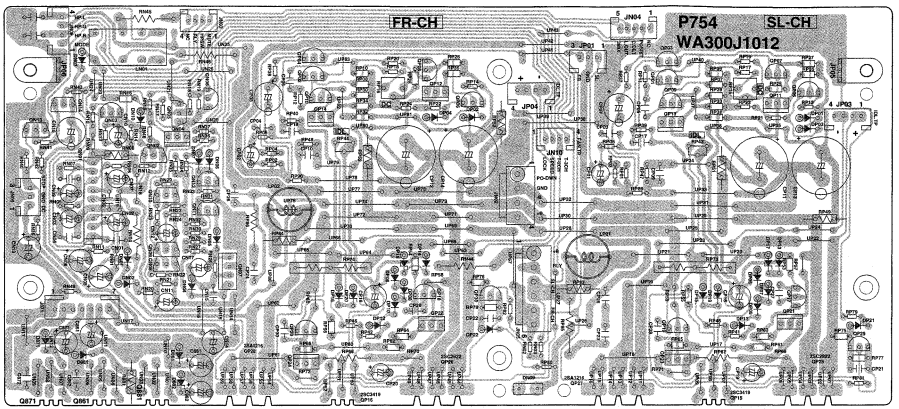


P774

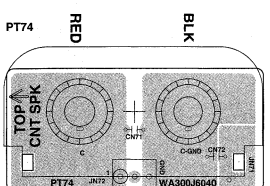
P794

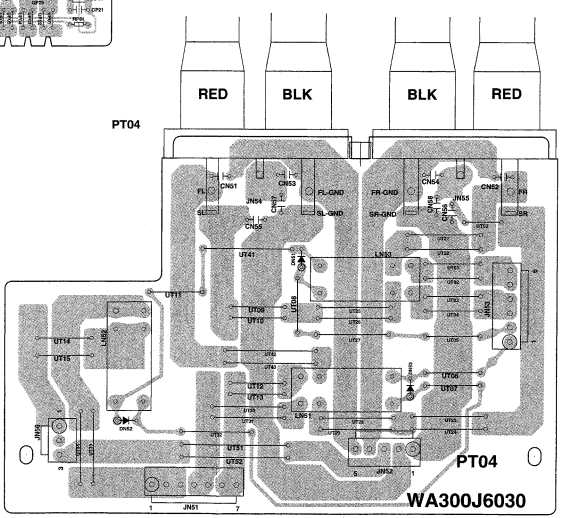


P754 QN14 QN05 QN04 QN06 QP04 QP02 QP08 QP03 QP01 QP07
QN13 QN03 QN02 QN10 QN12 QN11 QP10 QP14 QP12 QP06 QP09 QP13 QP11 QP05
QN09 QN08 QN07

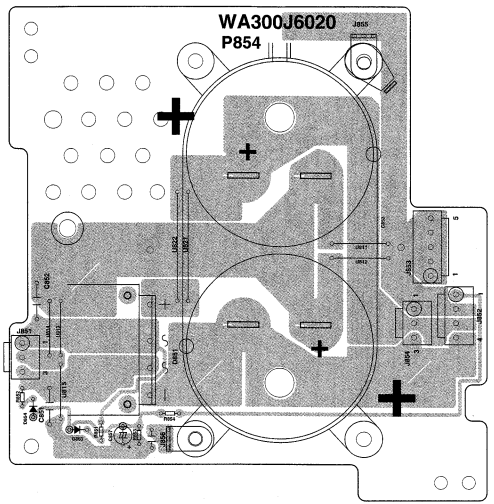


Q871 Q861 Q881 QP20 QP24 QP28 QP16 QP18 QP22 QP26 QP30 QP19 QP23 QP27 QP15

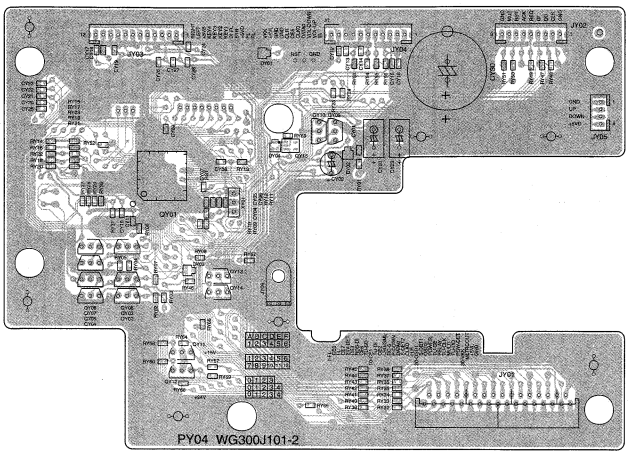




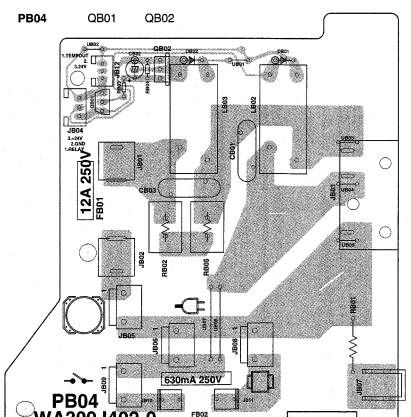
P854



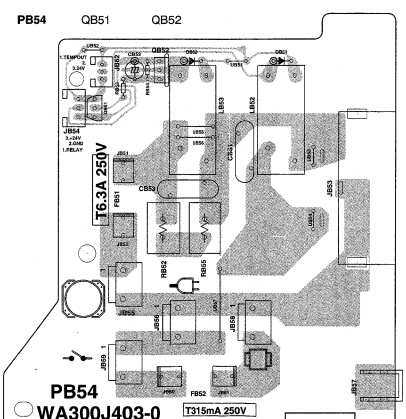
PY04 QY01 QY15 QY10 QY09
QY02 - QY08 QY13 QY14
QY11 QY12



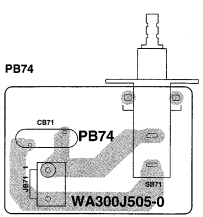
PB04 QB01 QB02



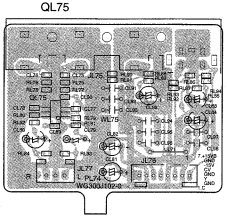
PB54 QB51 QB52



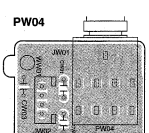
PB74



PL74
QL75



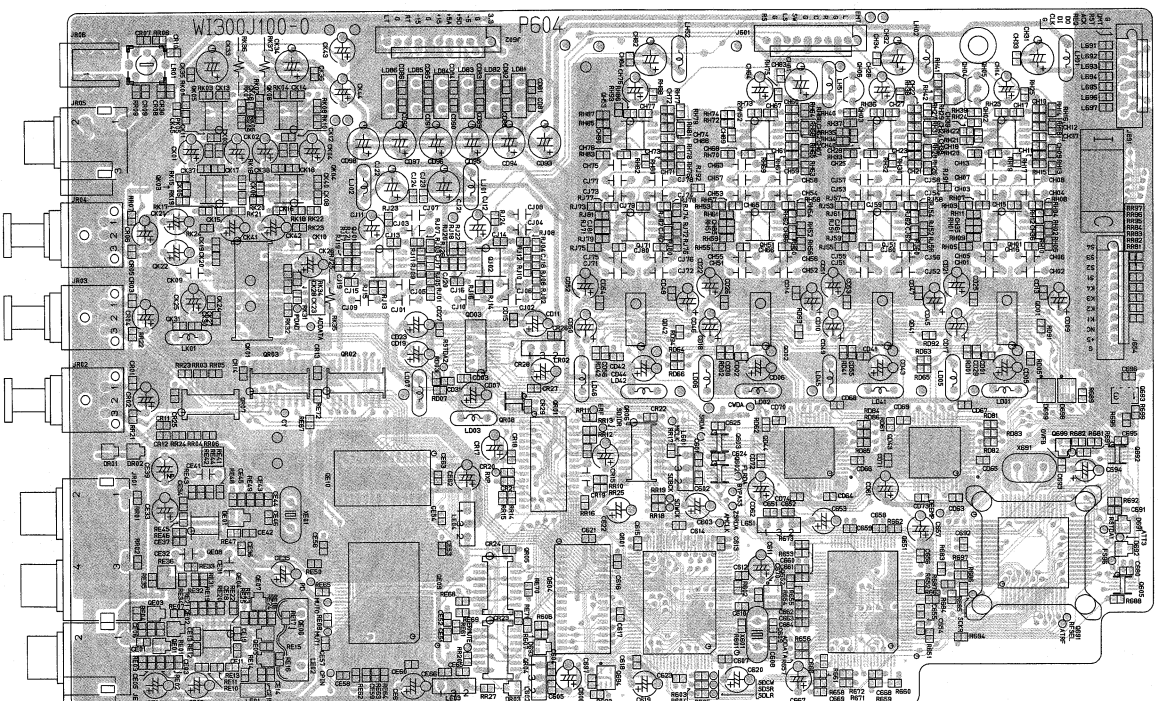
PW04



P604

QK05 QK06
QK03 QK04 QJ01 QJ02
QK01 QD03

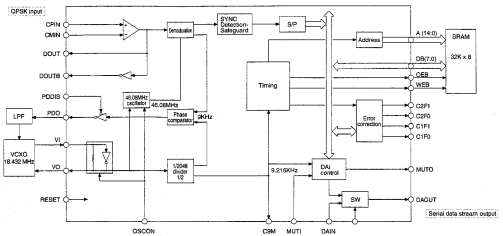
QH53 QH52 QH06 QH03 QH04 QH05 QH02
QJ71 QH51 QJ51 QH01
QD42 QD02 QD41 QD01



QR07 QR03 QR02 QR08 QR01 QR06 Q603 QD04 QD43 Q966 Q693
QE08 QE01 QE10 QR05 Q604 Q601 Q602 Q652 Q651 Q691 Q692
QE01 - QE04 - QE07 QE09 QR04 Q694 Q605

6. IC DATA

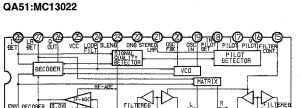
QM09:PM4007A



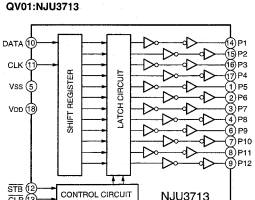
No.	Name	I/O	Function
1	GND	-	GND
2	VDD	-	+5VD
3	RESET	I	System Reset At "L" reset
4	OSCON	I	Oscillator control At"H" during normal operation At "L" during standby
5	DATA	I	TEST
6	MCK	I	TEST
7	MLTB	I	TEST
8	IDST	O	TEST
9	IDCK	O	TEST
10	IDO	O	TEST
11	TM0	I	TEST
12	ECCK	O	TEST
13	DEN	O	TEST
14	DRY	O	TEST
15	MSYC	O	TEST
16	TM1	I	TEST
17	A0	O	RAM A0
18	A1	O	RAM A1
19	A2	O	RAM A2
20	A3	O	RAM A3
21	A4	O	RAM A4
22	A5	O	RAM A5
23	TM2	I	TEST
24	TM3	I	TEST
25	XOUT	O	TEST
26	XIN	I	TEST
27	XEXT	i	TEST
28	GND	-	GND
29	VDD	-	+5VD
30	A6	O	RAM A6
31	A7	O	RAM A7
32	GND	-	GND
33	VDD	-	+5VD
34	A12	O	RAM A12
35	A14	O	RAM A14
36	WEB	O	RAM WEB
37	A13	O	RAM A13
38	A8	O	RAM A8
39	A9	O	RAM A9
40	GND	-	GND
41	A11	O	RAM A11
42	OEB	O	RAM OE
43	A10	O	RAM A10
44	DB7	B	RAM D7
45	DB6	B	RAM D6
46	DB5	B	RAM D5
47	DB4	B	RAM D4
48	DB3	B	RAM D3
49	DB2	B	RAM D2
50	DB1	B	RAM D1

No.	Name	I/O	Function
51	DB0	B	RAM D0
52	VDD	-	+5VD
53	GND	-	GND
54	TI1	I	TEST
55	VIN	I	VCXO input
56	VOUT	O	VCXO output
57	TI2	I	TEST
58	TI3	I	TEST
59	TLDB	I	TEST
60	TCK	I	TEST
61	TRP	O	TEST
62	TDO	O	TEST
63	PDO	O	Phase comparator output (3-state)
64	TI4	I	TEST
65	PDDIS	I	Control input for PDO out At "L" Output ON
66	MUTO	O	Muting output. Mutes at "H". Sets to "H" when MUTI = H or the AC-3 period cnanot be received.
67	TI5	I	TEST
68	VLDY	O	TEST
69	DASYO	O	TEST
70	DAOUT	O	Digital OUT (serial data stream output)
71	DAIN	I	Digital external input : Sets to DAOUT when DASEL is at "H"
72	DASEL	I	Selects digital OUT
73	TI6	I	TEST
74	C2F1	O	N.C.
75	C2F0	O	N.C.
76	C1F1	O	N.C.
77	C1F0	O	Displays C1 correction error status. Outputs error count at C1.
78	MUTI	I	Muting input. Mutes at "H".
79	VDD	-	+5VD
80	GND	-	GND
81	AVDD	I	+5VD
82	CPIN	I	Analog converter inverted input
83	CMIN	I	Analog converter inverted input
84	AGND	-	GND
85	TM4	I	TEST
86	VDD	-	+5VD
87	DIN	I	TEST
88	DOUT	O	Analog converter inverted output
89	DOUTB	O	Analog converter inverted reverse output
90	C9M	O	N.C.
91	GND	-	GND
92	WINGT	O	TEST
93	SYST0	O	TEST
94	SYST1	O	TEST
95	ADST0	O	TEST
96	ADST1	O	TEST
97	TM5	I	TEST
98	BUNFI	I	TEST
99	AGND	-	GND
100	AVDD	-	+5VD

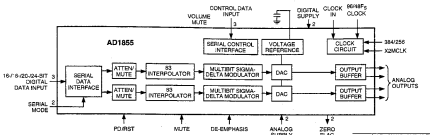
QA51:MC13022

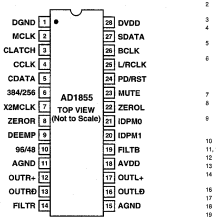


QV01:NJU3713



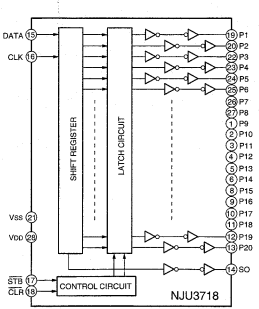
QD01/QD03/QD41/QD43:AD1855



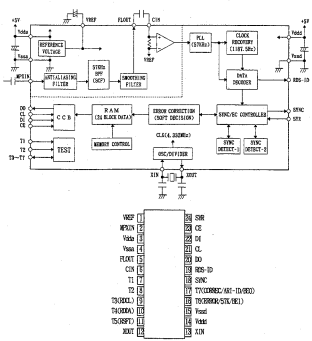


Pin	Input/Output	Pin Name	Description
1	-	DGND	Digital Ground.
2	I	MCLK	Master Clock Input. Connect to an external clock source at either 256, 384 or 512 Fs.
3	I	CLATCH	Latch input for control data. This input is rising-edge sensitive.
4	I	CCLK	Control clock input for control data. Control input data must be valid on the rising edge of CCLK. CCLK may be continuous or gated.
5	I	CDATA	Serial control input, MSB first, containing 16 bits of unsigned data per channel. Used for specifying channel specific attenuation and mute.
6	I	384/256	Selects the master clock mode as either 384 times the intended sample frequency (LO), The state of this input should be hardwired to logic HI or logic LO, or may be changed while the AD1855 is in power-down/reset. It must not be changed while the AD1855 is operational.
7	I	X2MCLK	Selects internal clock doubler (LO) or internal clock = MCLK (HI).
8	O	ZEROR	Right Channel Zero Flag Output. This pin goes HI when Right Channel has no signal input for more than 1024 LR Clock Cycles.
9	I	DEEMP	De-Emphasis. Digital de-emphasis is enabled when this input signal is HI. This is used to impose a 50/e/15 me response characteristic on the output audio spectrum at an assumed 44.1 kHz sample rate.
10	I	96/48	Selects 48 kHz (LO) or 96 kHz Sample Frequency Control.
11, 15	I	AGND	Analog Ground.
12	O	OUTR-	Right Channel Positive line level analog output.
13	O	OUTRD	Right Channel Negative line level analog output.
14	O	FILTR	Voltage Reference Filter Capacitor Connection. Bypass and decouple the voltage reference with parallel 10 n F and 0.1 mF capacitors to the AGND.
16	O	OUTLD	Left Channel Negative line level analog output.
17	O	OUTL+	Left Channel Positive line level analog output.
18	I	AVDD	Analog Power Supply. Connect to analog +5 V supply.
19	O	FILTB	Filter Capacitor connection, connect 10 mF capacitor to AGND.
20	I	IDPM1	Input serial data port mode control one. With IDPM0, defines one of four serial modes.
21	I	IDPM0	Input serial data port mode control zero. With IDPM1, defines one of four serial modes.
22	O	ZEROL	Left Channel Zero Flag output. This pin goes HI when Left Channel has no signal input for more than 1024 LR Clock Cycles.
23	I	MUTE	Mute. Assert HI to mute both stereo analog outputs. Deassert LO for normal operation.
24	I	PD/RST	Power-Down/Reset. The AD1855 is placed in a low power consumption mode when this pin is held LO. The AD1855 is reset on the rising edge of this signal. The serial control port registers are reset to the default values. Connect HI for normal operation.
25	I	L/RCLK	Left/Right clock input for input data. Must run continuously.
26	I	BCLK	Bit clock input for input data. Need not run continuously; may be gated or used in a burst fashion.
27	I	SDATA	Serial input, MSB first, containing two channels of 16, 18, 20, and 24 bits of twos complement data per channel.
28	I	DVDD	Digital Power Supply Connect to digital +5 V supply.

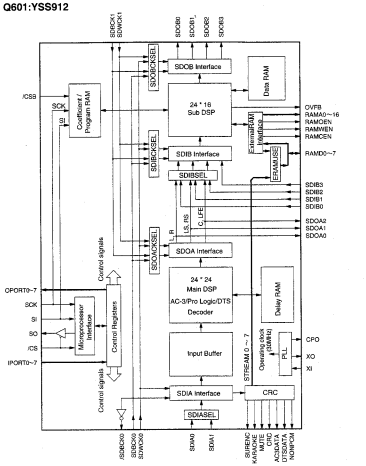
QL07/QU02:NJU3718



Q351:LC72720

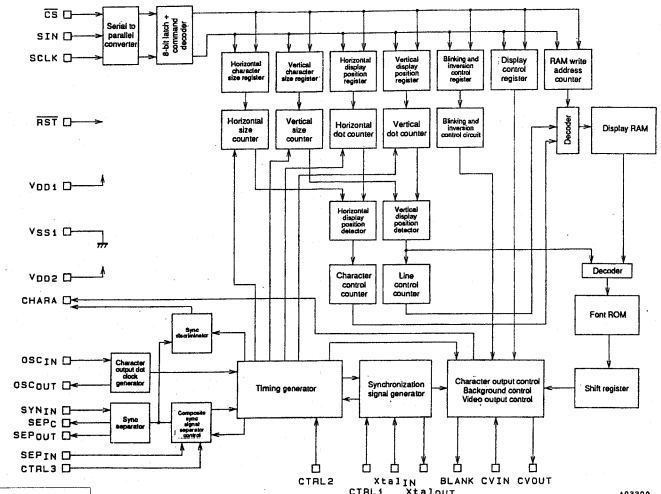


Q601:YSS912



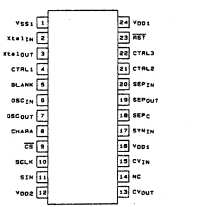
No.	NAME	I/O	FUNCTION
1	VDD1	-	+5V power supply (for I/Obs)
2	RAMCEN	O	External SRAM Interface /CE
3	RAMA16	O	External SRAM Interface address 16
4	RAMA15	O	External SRAM Interface address 15
5	SDIB0	I+	PCM input 0 to Sub DSP
6	SDIB1	I+	PCM input 1 to Sub DSP
7	SDIB2	I+	PCM input 2 to Sub DSP
8	XI	I	Crystal oscillator connection or input external clock (12.288 MHz)
9	XO	o	Crystal oscillator connection
10	VSS	-	Ground
11	AVDD	-	+3.3V power supply (for PLL circuit)
12	SDIB3	I+	PCM input 3 to Sub DSP
13	TEST		Test terminal (to be open in normal use)
14	TEST		Test terminal (to be open in normal use)
15	OVFB	O	Detection of overflow at Sub DSP
16	DTSDATA	O	DTS data detection (Refer to "Status Register".)
17	AC3DATA	O	AC-3 data detection (Refer to "Status Register".)
18	SDOB3	O	PCM output from Sub DSP
19	CPO	A	Output terminal for PLL. To be connected to ground through the external analog filter circuit. (Refer to "External Circuit for PLL".)
20	AVSS	-	Ground (for PLL circuit)
21	VDD2	-	+3.3V power supply (for core logic)
22	SDOA2	o	PCM output from Main DSP (C, LFE)
23	SDOA1	O	PCM output from Main DSP (LS, RS)
24	SDOA0	O	PCM output from Main DSP (L, R)
25	RAMA14	O	External SRAM interface address 14
26	RAMA13	O	External SRAM interface address 13
27	RAMA12	O	External SRAM interface address 12
28	RAMA11	O	External SRAM interface address 11
29	RAMA10	O	External SRAM interface address 10
30	VSS	-	Ground
31	VDD1	-	+5V power supply (for I/Os)
32	OPORT0	O	Output port for general purpose. (Refer to " OPORT Register")
33	OPORT1	O	Output port for general purpose. (Refer to " OPORT Register")
34	OPORT2	O	Output port for general purpose. (Refer to " OPORT Register")
35	OPORT3	O	Output port for general purpose. (Refer to " OPORT Register")
36	OPORT4	O	Output port for general purpose. (Refer to " OPORT Register")
37	OPORT5	O	Output port for general purpose. (Refer to " OPORT Register")
38	OPORT6	O	Output port for general purpose. (Refer to " OPORT Register")
39	OPORT7	O	Output port for general purpose. (Refer to " OPORT Register")
40	VSS	-	Ground
41	VDD2	-	+3.3V power supply (for core logic)
42	RAMA9	O	External SRAM interface address 9
43	RAMA8	O	External SRAM interface address 8
44	RAMA7	O	External SRAM interface address 7
45	SDOB2	O	PCM output from Sub DSP
46	SDOB1	O	PCM output from Sub DSP
47	SDOB0	O	PCM output from Sub DSP
48	SCBCK1	I+	Bit clock input for SDOA, SDIB, SDOB. (Refer to " SDOA, SDIB, SDOB Register")
49	SDWCK1	I+	Word clock input for SDOA, SDIB, SDOB. (Refer to " SDOA, SDIB, SDOB Register")
50	VSS	-	Ground

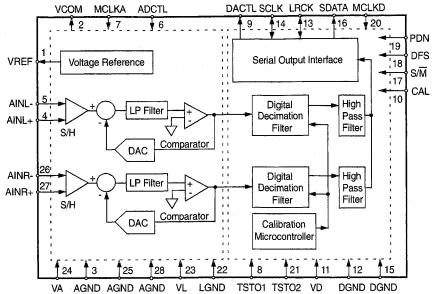
QL21,QL74:LC74781



No.	NAME	I/O	FUNCTION
51	VDD2	-	+3.3V power supply (for core logic)
52	NONPCM	O	Detection of non PCM data. (Refer to " Status Register")
53	CRC	O	Detection of AC-3 CRC error. (Refer to " Status Register")
54	MUTE	O	Detection of auto-mute. (Refer to " Status Register")
55	KARAOKE	O	Detection of AC-3 karaoke data. (Refer to " Status Register")
56	SURENC	O	Detection of AC-3 2/0 mode Dolby surround encoded input (Refer to " Status Register")
57	/SDBCK0	O	Inverted SDBCK0 clock output (refer to " Block diagram")
58	RAMA6	O	External SRAM interface address 6
59	RAMA5	O	External SRAM interface address 5
60	VSS	-	Ground
61	RAMA4	O	External SRAM interface address 4
62	/IC	Is	Initial clear
63	TEST		Test terminal (to be open in normal use)
64	RAMA3	O	External SRAM interface address 3
65	/CSB	Is+	Sub DSP Chip select
66	/CS	Is	Microprocessor interface Chip select
67	SO	Ot	Microprocessor interface Serial data output
68	SI	Is	Microprocessor interface/Sub DSP Serial data input
69	SCK	Is	Microprocessor interface/Sub DSP clock input
70	RAMA2	O	External SRAM Interface address 2
71	VDD1	-	+5V power supply (for I/Os)
72	RAMD0	I+/O	External SRAM Interface data (STREAM 0 output when External SRAM is not in use)
73	RAMD1	I+/O	External SRAM Interface data (STREAM 1 output when External SRAM is not in use)
74	RAMD2	I+/O	External SRAM Interface data (STREAM 2 output when External SRAM is not in use)
75	RAMD3	I+/O	External SRAM Interface data (STREAM 3 output when External SRAM is not in use)
76	RAMD4	I+/O	External SRAM Interface data (STREAM 4 output when External SRAM is not in use)
77	RAMD5	I+/O	External SRAM Interface data (STREAM 5 output when External SRAM is not in use)
78	RAMD6	I+/O	External SRAM Interface data (STREAM 6 output when External SRAM is not in use)
79	RAMD7	I+/O	External SRAM Interface data (STREAM 7 output when External SRAM is not in use)
80	VSS	-	Ground
81	VDD2	-	+3.3V power supply (for core logic)
82	SDWCK0	I	Word clock input for SDIA, SDOA, SDIB, SDOB (Refer to " SDIA, SDOA, SDIB, SDOB Register")
83	SDBCK0	I	Bit clock input for SDIA SDOA SDIB SDOB (Refer to " SDIA, SDOA, SDIB, SDOB Register")
84	SDIA0	I	AC-3/DTS bitstream (or PCM) data input for Main DSP (Refer to " SDIA Register")
85	SDIA1	I	AC-3/DTS bitstream (or PCM) data input for Main DSP (Refer to " SDIA Register")
86	RAMA1	O	External SRAM interface address 1
87	RAMA0	O	External SRAM interface address 0
88	RAMWEN	O	External SRAM interface /WE
89	RAMOEN	O	External SRAM interface /OE
90	VSS	-	Ground
91	VDD2	-	+3.3V power supply (for core logic)
92	IPORT7	I+	Input port for general purpose (Refer to " IPORT Register")
93	IPORT6	I+	Input port for general purpose (Refer to " IPORT Register")
94	IPORT5	I+	Input port for general purpose (Refer to " IPORT Register")
95	IPORT4	I+	Input port for general purpose (Refer to " IPORT Register")
96	IPORT3	I+	Input port for general purpose (Refer to " IPORT Register")
97	IPORT2	I+	Input port for general purpose (Refer to " IPORT Register")
98	IPORT1	I+	Input port for general purpose (Refer to " IPORT Register")
99	IPORT0	I+	Input port for general purpose (Refer to " IPORT Register")
100	VSS	-	Ground

Note) Is : Schmidt trigger input terminal
I+ : Input terminal with a pull-up resistor
O : Digital output terminal
Ot : Tri-state digital output terminal
A : Analog terminal





VOLTAGE REFERENCE	VREF	1	28	AGND	ANALOG GROUND
COMMON MODE VOLTAGE OUTPUT	VCOM	2	27	AINR+	RIGHT CHANNEL ANALOG INPUT+
ANALOG GROUND	AGND	3	26	AINR-	RIGHT CHANNEL ANALOG INPUT-
LEFT CHANNEL ANALOG INPUT+	AINL+	4	25	AGND	ANALOG GROUND
LEFT CHANNEL ANALOG INPUT-	AINL-	5	24	VA	POSITIVE ANALOG POWER
ANALOG CONTROL DATA INPUT	ADCTL	6	23	VL	ANALOG SECTION LOGIC POWER
ANALOG SECTION CLOCK INPUT	MCLKA	7	22	LGND	ANALOG SECTION LOGIC GROUND
TEST OUTPUT	TSTO1	8	21	TSTO2	TEST OUTPUT
CONTROL DATA OUTPUT	DACTL	9	20	MCLKD	DIGITAL SECTION CLOCK INPUT
CALIBRATION	CAL	10	19	PDN	POWER DOWN
DIGITAL SECTION POWER	VD	11	18	DFS	SERIAL DATA FORMAT SELECT
DIGITAL GROUND	DGND	12	17	S/M	SLAVE/MASTER MODE
LEFT/RIGHT CLOCK	LRCK	13	16	SDATA	SERIAL DATA OUTPUT
SERIAL CLOCK	SCLK	14	15	DGND	DIGITAL GROUND

Power Supply Connections

VA - Analog Power, Pin 24.
Positive analog supply. Nominally +5 volts.

VL - Logic Power, Pin 23.
Positive logic supply for the analog section. Nominally +5 volts.

AGND - Analog Ground, Pins 3, 25, and 28.
Analog ground reference.

LGND - Logic Ground, Pin 22.
Ground reference for the logic portions of the analog section.

VD - Digital Power, Pin 11.
Positive supply for the digital section. Nominally +5 volts.

DGND - Digital Ground, Pins 12 and 15.
Digital ground reference for the digital section.

Analog Inputs

AINR-, AINR+ - Differential Right Channel Analog Inputs, Pins 26 and 27.
Analog input connections for the right channel differential inputs. Nominally 4.0 Vpp differential for full-scale digital output.

AINL-, AINL+ - Differential Left Channel Analog Inputs, Pins 4 and 5.
Analog input connections for the left channel differential inputs. Nominally 4.0 Vpp differential for full-scale digital output.

Analog Outputs

VCOM - Common Mode Voltage Output, Pin 2.
Nominally +2.5 volts. Requires a 10 mF electrolytic capacitor in parallel with 0.1 mF ceramic capacitor for decoupling to AGND. Caution is required if this output be used to bias the analog input buffer circuits. Refer to the CDB5394 as an example.

VREF - Voltage Reference Output, Pin 1.
Nominally +4 volts. Requires a 100 mF electrolytic capacitor in parallel with 0.1 mF ceramic capacitor for decoupling to AGND.

Digital Inputs

ADCTL - Analog Control Input, Pin 6.
Must be connected to DACTL. This signal enables communication between the analog and digital circuits.

DFS - Digital Format Select, Pin 18.
The relationship between LRCK, SCLK and SDATA is controlled by the DFS pin. When high, the serial output data format is I 2 S compatible. The serial data format is left-justified when low.

CAL - Calibration, Pin 10.
Activates the calibration of the tri-level delta-sigma modulator on the rising edge of the CAL input.

MCLKA - Analog Section Input Clock, Pin 7.
This clock is internally divided and controls the delta-sigma modulators. An MCLKA frequency of 12.288 MHz sets a modulator sampling rate of 3.072 MHz and a output sample rate of 48 kHz. MCLKA must be connected to MCLKD.

MCLKD - Digital Section Input Clock, Pin 20.
MCLKD clocks the digital filter and must be connected to MCLKA. The required MCLKD frequency is determined by the desired sample rate. A MCLKD of 12.288MHz corresponds to Fs equal to 48 kHz. MCLKA must be connected to MCLKD.

PDN - Power Down, Pin 19.
When high, the device enters power down. Upon returning low, the device enters normal operation and issues commands to initialize the voltage reference and synchronize the analog and digital sections of the device.

S/M - Slave or Master Mode, Pin 17.
When high, the device is configured for Slave mode where LRCK and SCLK are inputs. The device is configured for Master mode where LRCK and SCLK are outputs when S/M is low.

Digital Outputs

DACTL- Digital to Analog Control Output, Pin 9.
Must be connected to ADCTL. This signal enables communication between the digital and analog circuits.

SDATA - Digital Audio Data Output, Pin 16.
The 24-bit audio data is presented MSB first, in 2's complement format. This pin has a internal pull-down resistor and must remain low during the power-up sequence to avoid accessing a test mode.

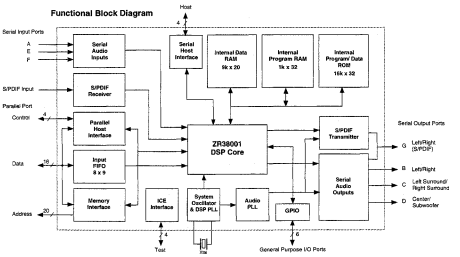
Digital Inputs or Outputs

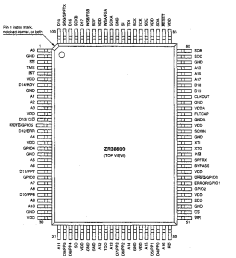
LRCK - Left/Right Clock, Pin 13.
LRCK determines which channel, left or right, is to be output on SDATA. The relationship between LRCK, SCLK and SDATA is controlled by the Digital Format Select (DFS) pin. Although the outputs for each channel are transmitted at different times, Left/Right pairs represent simultaneously sampled analog inputs. In master mode, LRCK is an output whose frequency is equal to Fs. In Slave Mode, LRCK is an input whose frequency must be equal to Fs.

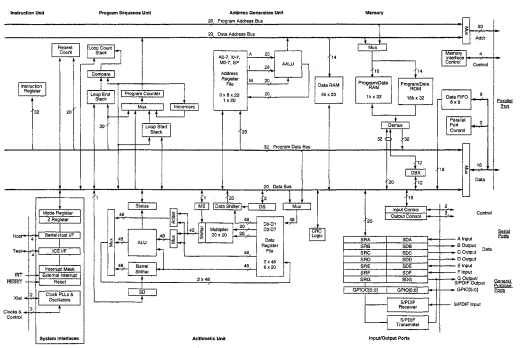
SCLK - Serial Data Clock, Pin 14.
Clocks the individual bits of the serial data from SDATA. The relationship between LRCK, SCLK and SDATA is controlled by the Digital Format Select (DFS) pin. In master mode, SCLK is an output clock at 64•L Fs. In slave mode, SCLK is an input which requires a continuously supplied clock at any frequency from 48•L to 128•L Fs (64•L is recommended).

Miscellaneous

TSTO1, TSTO2 - Test Outputs, Pins 8 and 21.
These pins are intended for factory test outputs. They must not be connected to any external component or any length of circuit trace.







Detailed Block Diagram

MARA-00722 / DRUCK 24

QY01:TMP93CW40DF

Pin Description

No	Port Name	I/O	USE	Sig. Name	Act.	Description
1	VREFL	I	-	-	-	A/D VREFL
2	AVSS	I	-	-	-	A/D VSS
3	AVCC	I	-	-	-	A/D VCC
4	NMI	I	NMI	-	-	Pull Up
5	P70/TI0	I/O	O	POWER OFF	L	
6	P71/TO1	I/O	O	KILL IR	H	
7	P72/TO2	I/O	O	RC-5 OUT	H	
8	P73/TO3	I/O	O	SPEAKER OFF	H	SPK RELAY
9	P80/INT4/	I/O	I	RC-5 IN	H	Both Edge
10	P81/INT5/	I/O	I	SYNC0	H	Rising Edge
11	P82/TO4	I/O	I	HEAD PHONE	L	
12	P83/TO5	I/O	I	-	-	Fixed
13	P84/INT6/	I/O	I	SURR. ACK	L	Both Edge
14	P85/INT7/	I/O	I	SYNC1	H	Rising Edge
15	P86/TO6	I/O	I	MULTI RC-5 IN	L	
16	P87/INT0	I/O	I	POWER DOWN	L	
17	P90/TXD0	I/O	TXD	DO0	-	I/F to SURR. uP
18	P91/RXD0	I/O	RXD	DI0	-	I/F to SURR. uP
19	P92/SCLK0	I/O	SCLK	CLK0	-	I/F to SURR. uP
20	P93/TXD1	I/O	TXD	DO1	-	I/F to ICs
21	P94/RXD1	I/O	RXD	DI1	-	I/F to ICs
22	P95/SCLK1	I/O	SCLK	CLK1	-	I/F to ICs
23	AM8/_16	I	-	-	-	Pull Up
24	CLK	O	-	-	-	Pull Up
25	VCC	I	-	-	-	Pull Up
26	VSS	I	-	-	-	to VSS
27	X1	I	-	-	-	20MHz
28	X2	O	-	-	-	20MHz
29	EA	I	-	-	-	Pull Up
30	RESET	I	-	-	-	
31	P96/XT1	I/O	I	-	-	to VSS
32	P97/XT2	I/O	I	-	-	to VSS
33	TEST1	I	-	-	-	to TEST2
34	TEST2	I	-	-	-	to TEST1
35	PA0	I/O	O	OSD ON0	H	
36	PA1	I/O	O	OSD ON1	H	
37	PA2	I/O	O	CLR LED	L	NJU3718 CLR
38	PA3	I/O	O	MULTI RC-5 OUT	H	
39	PA4	I/O	O	LARGE/SMALL	L	LARGE = L
40	PA5	I/O	O	SMUTE	H	
41	PA6	I/O	O	SURR. RESET	L	
42	PA7/SCOUT	I/O	O	SURR. REQ.	L	I/F to SURR. uP
43	ALE	O	-	-	-	Pull Up
44	VCC	I	-	-	-	to VCC
45	P00	I/O	O	CE(TUNER)	H	
46	P01	I/O	O	CLK(TUNER)	-	
47	P02	I/O	O	DO(TUNER)	-	
48	P03	I/O	I	DI(TUNER)	-	
49	P04	I/O	I	SD(TUNER)	L	
50	P05	I/O	I	DI(RDS)	-	
51	P06	I/O	O	-	-	
52	P07	I/O	O	-	-	
53	P10	I/O	O	-	-	
54	P11	I/O	O	-	-	
55	P12	I/O	O	-	-	
56	P13	I/O	O	-	-	
57	P14	I/O	O	-	-	
58	P15	I/O	O	-	-	
59	P16	I/O	O	-	-	
60	P17	I/O	O	-	-	
61	WDTOUT	O	-	-	-	N.C
62	VSS	I	-	-	-	to VSS
63	VCC	I	-	-	-	to VCC
64	P20	I/O	I	FUNC. ENC. A	-	
65	P21	I/O	I	FUNC. ENC. B	-	
66	P22	I/O	I	VOL. ENC. A	-	
67	P23	I/O	I	VOL. ENC. B	-	
68	P24	I/O	I	GYRO A	-	
69	P25	I/O	I	GYRO B	-	
70	P26	I/O	I	-	-	to VSS
71	P27	I/O	I	-	-	to VSS
72	P30	I/O	O	CE0(AUDIO)	H	
73	P31	I/O	O	CE1(VIDEO)	L	
74	P32	I/O	O	CE2(VOLUME)	H	
75	P33	I/O	O	CE3(MUTE)	L	
76	P34	I/O	O	CE4(LED)	L	
77	P35	I/O	O	CE5(FL)	L	
78	P36	I/O	O	CE6(OSD)	L	
79	P37	I/O	O	CE7(OSD2)	L	
80	P40	I/O	O	(RESERVED)	-	

Act.: Active level

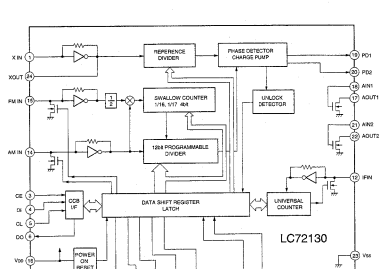
Q691:µPD78018

Pin Description

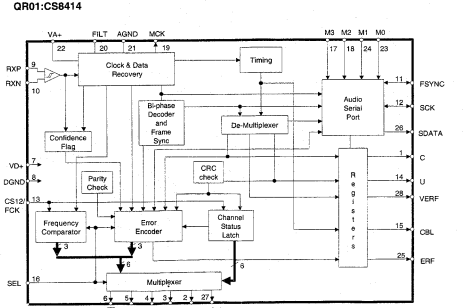
No	Port Name	I/O	USE	Sig. Name	Act.	Description
1	P30/TO0	I/O	I	C0_E0	-	DIR Status
2	P31/TO1	I/O	I	Ca_E1	-	DIR Status
3	P32/TO2	I/O	I	Cb_E2	-	DIR Status
4	P33/TI1	I/O	I	Cc_F0	-	DIR Status
5	P34/TI2	I/O	I	Cd_F1	-	DIR Status
6	P35/PCL	I/O	I	Ce_F2	-	DIR Status
7	P36/BUZ	I/O	O	TEST_COM	H	For Check SIO0 Interface
8	P37	I/O	I	OLD_OVFB	H	keep in port for SR880MK2
9	Vss	I	-	GND	-	GND
10	P40	I/O	O	ISEL1	-	SPDIF input select
11	P41	I/O	O	ISEL2	-	SPDIF input select
12	P42	I/O	O	CSEL1	-	SPDIF output select
13	P43	I/O	O	CSEL2	-	SPDIF output select
14	P44	I/O	O	KILLC	H	Kill SPDIF output
15	P45	I/O	O	ATRF	H	Auto RF select
16	P46	I/O	O	RFSEL	H	RF select
17	P47	I/O	O	DIG_ANA	-	Digital/ Analog select
18	P50	I/O	O	SMUTE	H	Soft mute by DAC
19	P51	I/O	O	_UMUTE	L	Hard mute by Tr.
20	P52	I/O	O	FS96	H	Fs=96k set
21	P53	I/O	O	BYPASS	H	Bypass DSP
22	P54	I/O	O	_CS_DSP1	L	I/F Q601 (main DSP)
23	P55	I/O	O	_CSB_DSP1	L	I/F Q601 (sub DSP)
24	Vss	I	-	GND	-	GND
25	P56	I/O	O	_SS_DSP2	L	I/F Q651
26	P57	I/O	O	C_EF_DIR	-	DIR Status Out Select
27	P60	I/O	O	_RSTRF	L	Reset to PM4007
28	P61	I/O	O	ADCAL	H	Cal. to ADC
29	P62	I/O	O	_RSTDSP2	L	Reset to Q651
30	P63	I/O	O	_ATT3	L	Attenuate to Bypass
31	P64	I/O	O	_RSTDA1	L	Reset to DAC
32	P65	I/O	O	_RSTDA2	L	Reset to DAC
33	P66/WAIT	I/O	O	_IC	L	Reset to Q601
34	P67/ASTB	I/O	O	RSTDIR	H	DIR Ch. Status Select
35	RESET	I	I	RSTC	L	I/F Master CPU
36	P00/INTP0	I	I	OVFB	-	Over load to DSP
37	P01/INTP1	I/O	I	_REQ	L	I/F Master CPU
38	P02/INTP2	I/O	I	ERF	H	SPDIF Error status
39	P03/INTP3	I/O	I	_RFNODET	L	RF input status
40	Vdd	I	-	+5V	-	+5v
41	X2	O	-	-	-	10MHz
42	X1	I	-	-	-	10MHz
43	IC	I	-	-	-	to GND
44	XT2	O	-	n.c.	-	Open
45	P04/XT1	I	-	n.c.	-	Vdd
46	Avss	I	-	GND	-	GND
47	P10/ANI0	I/O	ANI	KEY1	-	Optional 8 key input
48	P11/ANI1	I/O	ANI	KEY2	-	Optional 8 key input
49	P12/ANI2	I/O	ANI	KEY3	-	Optional 8 key input
50	P13/AMI3	I/O	ANI	KEY4	-	Optional 8 key input
51	P14/ANI4	I/O	I	SWITCH1	-	Link Host or Stand alone
52	P15/ANI5	I/O	I	SWITCH2	-	THX or Not
53	P16/ANI6	I/O	I	SWITCH3	-	ADC or CODEC
54	P17/ANI7	I/O	O	PDAD	-	ADC Power Down
55	AVdd	I	-	+5v	-	+5v
56	AVref	I	-	+5v	-	+5v
57	P20/SI1	I/O	I	SI1	-	I/F Master CPU
58	P21/SO1	I/O	O	SO1	-	I/F Master CPU
59	P22/SCK1	I/O	I	SCK1	-	I/F Master CPU
60	P23/STB	I/O	O	_ACK	L	I/F Master CPU
61	P24/BUSY	I/O	O	DEEMP	-	Pull Up
62	P25/SI0	I/O	I	SI0	-	I/F Q601&Q651
63	P26/SO0	I/O	O	SO0	-	I/F Q601&Q651
64	P27/SCK0	I/O	O	SCK0	-	I/F Q601&Q651

Act. : Active level ; OPT : Option

Q501:LC72130

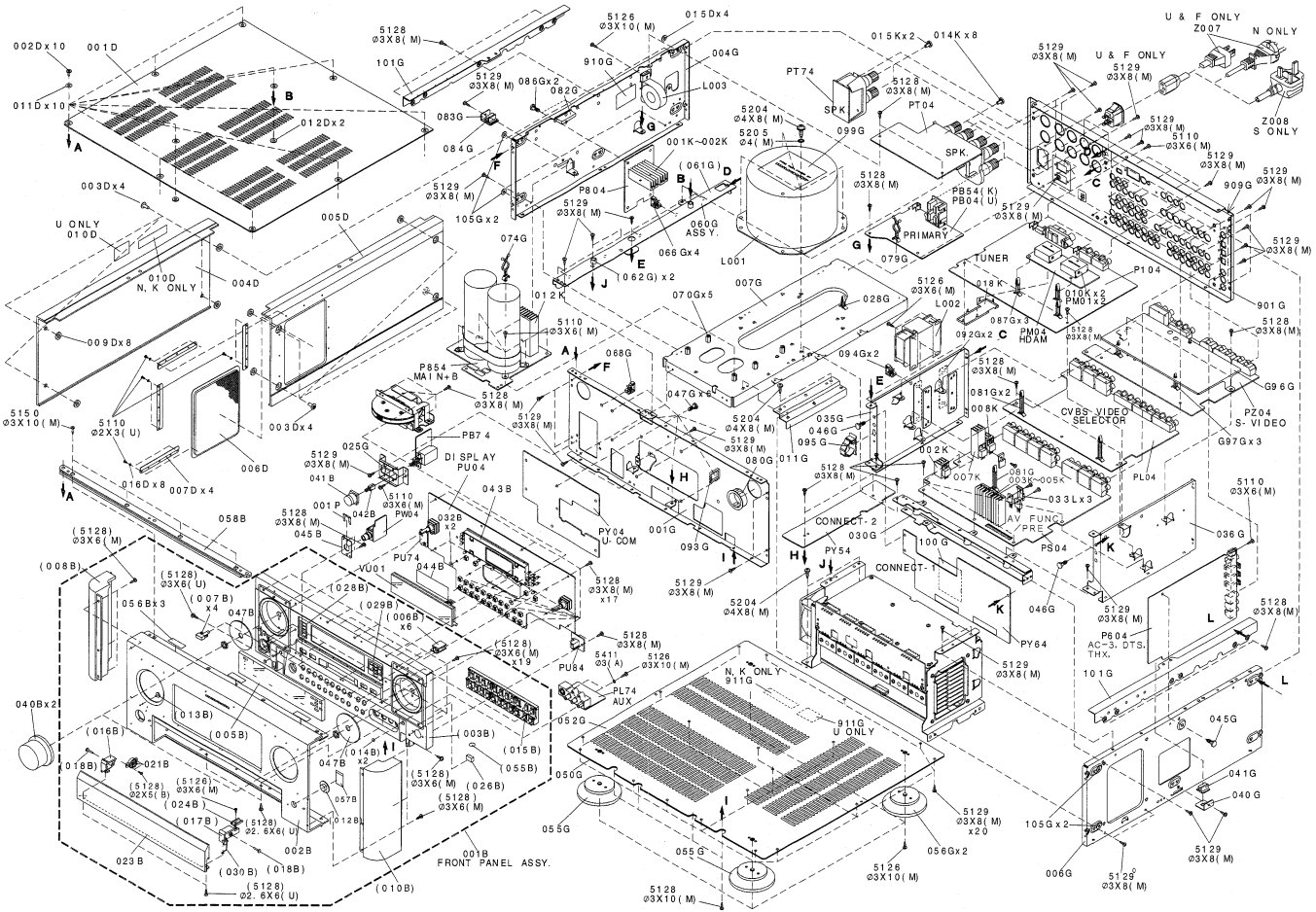


QR01:CS8414



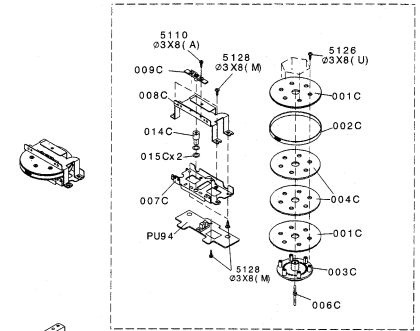
CS d/FREQ REPORT 1	Cd/F1	2	27	Ce/F2 CS e/FREQ REPORT 2
CS c/FREQ REPORT 0	Cc/F0	3	26	SDATA SERIAL OUTPUT DATA
CS b/ERROR CONDITION 2	Cb/E2	4	25	ERF ERROR FLAG
CS a/ERROR CONDITION 1	Ca/E1	5	24	M1 SERIAL PORT MODE SELECT 1
CS 0/ERROR CONDITION 0	C0/E0	6	23	M0 SERIAL PORT MODE SELECT 0
DIGITAL POWER	VD+	7	22	VA+ ANALOG POWER
DIGITAL GROUND	DGND	8	21	AGND ANALOG GROUND
RECEIVE POSITIVE	RXP	9	20	FILT FILTER
RECEIVE NEGATIVE	RXN	10	19	MCK MASTER CLOCK
FRAME SYNC	FSYNC	11	18	M2 SERIAL PORT MODE SELECT 2
SERIAL DATA CLOCK	SCK	12	17	M3 SERIAL PORT MODE SELECT 3
CHANNEL SELECT/FCLOCK	CS12/FCK	13	16	SEL FREQ/CS SELECT
	U	14	15	CBL

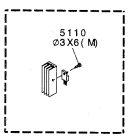
7. EXPLODED VIEW AND PARTS LIST



POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
001B	GOLD		FRONT AL PANEL KIT GL	322J248510
001B	BLACK		FRONT AL PANEL KIT BL	322J248500
002B	GOLD	9965 000 01780	FRONT AL PANEL GL	322J248110
002B	BLACK	9965 000 01780	FRONT AL PANEL BL	322J248010
003B	GOLD	9965 000 01781	FRONT MOULD PANEL GL	300J248150
003B	BLACK	9965 000 01781	FRONT MOULD PANEL BL	300J248050
005B	GOLD	9965 000 01785	WINDOW FL GL	300J158110
005B	BLACK	9965 000 01785	WINDOW FL BL	300J158010
006B		9965 000 01794	LENS FUNCTION LED	300J355010
007B	GOLD	9965 000 01795	BUTTON GYRO SIDE FUNCTION GL	300J270120
007B	BLACK	9965 000 01795	BUTTON GYRO SIDE FUNCTION BL	300J270020
008B	GOLD	9965 000 01796	ESCUTCHEON CORNER L SIDE GL	322J063110
008B	BLACK	9965 000 01796	ESCUTCHEON CORNER L SIDE BL	322J063010
010B	GOLD	9965 000 01797	ESCUTCHEON CORNER R SIDE GL	322J063120
010B	BLACK	9965 000 01797	ESCUTCHEON CORNER R SIDE BL	322J063010
012B	GOLD	4822 381 12016	LENS IR GL	256J355030
012B	BLACK	4822 381 12016	LENS IR BL	256J355040
013B		4822 381 11677	LENS POWER LED	230K355020
014B		4822 462 10955	BUFFER DOOR	446T056010
015B	GOLD	9965 000 01798	BUTTON FUNCTION GL	300J270110
015B	BLACK	9965 000 01798	BUTTON FUNCTION BL	300J270010
016B	GOLD	9965 000 01799	ARM DOOR HINGE L SIDE GL	300J002110
016B	BLACK	9965 000 01799	ARM DOOR HINGE L SIDE BL	300J002010
017B	GOLD	9965 000 01800	ARM DOOR HINGE R SIDE GL	300J002120
017B	BLACK	9965 000 01800	ARM DOOR HINGE R SIDE BL	300J002020
018B		9965 000 01801	SHAFT DOOR	300J112010
021B		4822 529 10215	DAMPER DOOR	391H130030
023B	GOLD	9965 000 01802	DOOR PANEL GL	322J162110
023B	BLACK	9965 000 01802	DOOR PANEL BL	322J162010
026B		4822 526 20213	MAGNET DOOR	271K305500
028B			WINDOW MASK SHEET L	300J303010
029B			WINDOW MASK SHEET R	300J303020
030B		9965 000 01803	SPRING DOOR ESD	300J115010
040B	GOLD	9965 000 01804	KNOB MASTER GL	300J154210
040B	BLACK	9965 000 01804	KNOB MASTER BL	300J154010
041B	GOLD	4822 410 11276	BUTTON POWER GL	176J270150
041B	BLACK	4822 410 11276	BUTTON POWER BL	176J270050
042B		4822 404 21012	JOINT POWER BUTTON	025J125010
043B		4822 256 92097	HOLDER FL	183J271020
044B		4822 459 11158	STICKER FL ADHESIVE TAPE	056J122010
049B		4822 532 21196	FLAT WASHER	54110149A0
057B			MASK IR	300J303030
058B	GOLD		ESCUTCHEON TOP COVER SPACER GL	322J063130
058B	BLACK		ESCUTCHEON TOP COVER SPACER BL	322J063030
001C	GOLD	4822 410 11676	ESCUTCHEON GYRO UP DOWN GL	290J063110
001C	BLACK	4822 410 11676	ESCUTCHEON GYRO UP DOWN BL	290J063010
002C	GOLD	9965 000 01396	RUBBER RING GYRO GL	290J066110
002C	BLACK	9965 000 01396	RUBBER RING GYRO BL	290J066010
003C		9965 000 01397	FLYWHEEL GYRO BASE	290J273110
006C		9965 000 01398	SHAFT GYRO MAIN	290J112010
009C			RETAINER GYRO UPPER	290J104050
014C		9965 000 01805	SHAFT GYRO SHAFT SUSTAINER UNDER	300J112020
015C			WASHER FOR UNDER SIDE	59071102G0
001D	GOLD	9965 000 01806	LID TOP COVER GL	322J257110
001D	BLACK	9965 000 01806	LID TOP COVER BL	322J257010
002D	GOLD		SCREW TOP COVER GL	323S010040
002D	BLACK		SCREW TOP COVER BL	323S010050

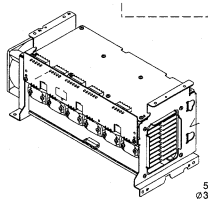
POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
003D	GOLD	4822 502 14613	SCREW SIDE GL	258S010020
003D	BLACK	4822 502 14613	SCREW SIDE BL	258S010010
004D	GOLD	9965 000 01807	SIDE PANEL L GL	322J249110
004D	BLACK	9965 000 01807	SIDE PANEL L BL	322J249010
005D	GOLD	9965 000 01808	SIDE PANEL R GL	322J249120
005D	BLACK	9965 000 01808	SIDE PANEL R BL	322J249020
006D	GOLD	9965 000 01809	PERFORATED SIDE NET GL	322J003110
006D	BLACK	9965 000 01809	PERFORATED SIDE NET BL	322J003010
055G		4822 462 42134	LEG FRONT GOLD AL CAP	291K057010
056G		4822 462 42134	LEG REAR GOLD AL CAP	291K057010
089G			T.L. WASHER	54050400M0
014K			BUSHING SPK.TERMINAL CAP UL 94V-1	227J259020
015K			BUSHING SPK.TERMINAL CAP T10336 94HB	227J259
JL21 ⟆ JL25			SHOTE PLUG SHORT PIN PRE OUT - MAIN IN	YQ01000080
▲ J001		9965 000 01313	JACK 2P AC INLET PWI1910-H	YJ04002440
▲ L001	/K		MAINS TRANSF. 220V 50Hz	TS42002080
▲ L001	/N,/S	9965 000 01778	MAINS TRANSF. 230V 50Hz	TS42002090
▲ L001	/U		MAINS TRANSF. 120V 60Hz	TS42002100
▲ L002	/K		MAINS TRANSF. 220V 50/60Hz	TS17205090
▲ L002	/N,/S	9965 000 01779	MAINS TRANSF. 230V 50/60Hz	TS17205100
▲ L002	/U		MAINS TRANSF. 120V 60Hz	TS16404120
L003	/N,/S,/U		FERRITE CORE TFCK-25-15-12	FC50250020
L004		4822 526 10691	FERRITE CORE TFCK-16-8-13 FOR WL01	FC50160030
L005		4822 526 10691	FERRITE CORE FE CORE TFCK-16-8-13 FOR WY04	FC50160030
			PACKING	
001T	/K,/S		USER GUIDE	322J851310
001T	/N	9965 000 01810	USER GUIDE	322J851350
001T	/U		USER GUIDE	322J851250
Z001	/K,/S		REMOTE COMMANDER RC-18SR	ZK300J0010
▲ Z007	/K		MAINS CORD CCEE 2.5A 250V	ZC01803090
▲ Z007	/N,/S	4822 321 11439	MAINS CORD 2P 10A 250V CLASS2	ZC01803080
▲ Z007	/U		MAINS CORD 125V 13A UL	ZC01802100
▲ Z008	/S		MAINS CORD 10A 250V HONG KONG	ZC01804070
			NOT STANDARD SPARE PARTS	
001S	/U		PACKING CASE	322J801010
002S	/U		CUSHION L SIDE	300J809010
003S	/U		CUSHION R SIDE	300J809020
Z003	/K,/N,/S		FM ANTENNA 931222R	ZA02900020
Z003	/U		FM EXT ANTENNA	ZA02000070
Z004			LOOP ANTENNA LA-700HB	LA00055010
Z005	/U		PLUG ANTENNA ADAPTOR	YP90000310
Z006	/K		JACK AC ADAPTER S-I6116	YJ04001240

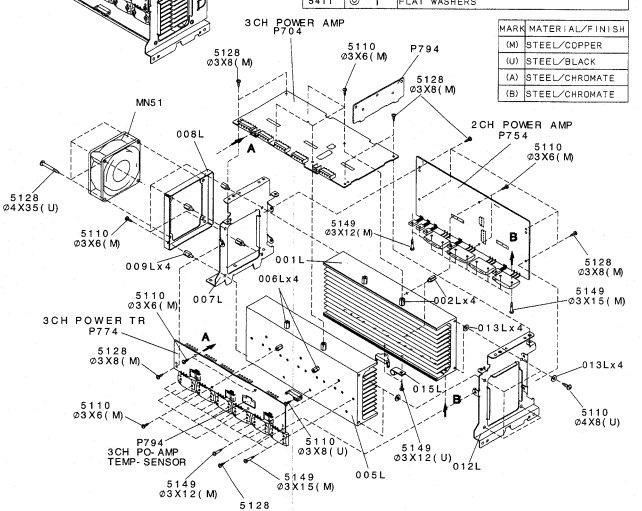




SYMBOL	STYLE	PARTS NAME
5110	⊗	+B. H. M. SCREW
5126	⊗	+B. H. TAP TITE SCREW W WASHER
5128	⊗	+B. H. TAP TITE SCREW(B TYPE)
5149	⊗	+B. H. M. SCREW W WASHER/ SP WASHER)
5204	⊗	+H. H. TAPT. BOLTS WITH FLANGE(S TITE)
5411	⊙	FLAT WASHERS

MARK	MATERIAL/FINISH
(M)	STEEL/COPPER
(U)	STEEL/BLACK
(A)	STEEL/CHROMATE
(B)	STEEL/CHROMATE





8. SERVICE PROGRAM

REMARK

If these service programs are set, All user preset memories will be cleared.

1. FACTORY mode (Tracking point memory)

This **FACTORY mode** can be use for measurement of the tuner circuit.
When the product is POWER ON, press both [**MEMO**] and [**DISPLAY OFF**] buttons simultaneously over 3 seconds.
FLD shows **"FACTORY"** for 3 seconds. Press [**PRESET**] button, FLD shows **"PRESET SEL"**.
The tuning frequencies are memorized as follows.

Band	VERSION	P1	P2	P3	P4
FM AUTO	U, K, N, S	90.0	98.0	106.0	87.5
[MHz]	F	78.0	83.0	88.0	76.0

Band	SCAN STEP	P5	P6	P7	P8	P9	P10	P11	P12
AM [kHz]	10 kHz(U)	600	1000	1400	520				
	9kHz(F, K, S)	603	999	1404	531				
	MW/LW(N)	603	999	1404	171	207	270	152	531

2. FLD segment check mode

This mode is available to check all luminous segments by the following steps.
1. When the product is FACTORY mode (Refer to above mentioned "**1. FACTORY mode**"), press [**DISPLAY OFF**] button. FLD shows **"SERVICE"** for 2 seconds.
2. All segments and all LED light up for 5 seconds.
3. Each segment lights up step by step.
4. Press [**DISPLAY OFF**] button again, then this mode will be stopped and the product will be FACTORY mode.

3. Version of microprocessor (CPU)

This program is available to confirm the version of each CPU by the following steps.
QY01 (main) : When the product is POWER ON, press both [**CL**] and [**TREBLE ▼**] buttons simultaneously over 3 seconds.
FLD shows the version of program code for QY01.
Q691 (DSP) : When the product is POWER ON, press both [**CL**] and [**BASS ▼**] buttons simultaneously over 3 seconds.
FLD shows the version of program code for Q691.

4. Input and output test mode

This mode is available for the functions as shown in Fig 1 by the following steps.
1. When the product is FACTORY mode (Refer to above mentioned "**1. FACTORY mode**"), press both [**MEMO**] and [**TREBLE▼**] buttons simultaneously.
2. FLD shows **"AUTO D1"**. By pressing both [**MEMO**] and [**TREBLE ▼**] buttons simultaneously each time, the mode is changed in the following order.

Fig 1 Input and output test mode

ORDER	INDICATION for FLD	MODE FUNCTION
1	AUTO D1	Input selection mode (without using system setup menu)
2	ALL CH D1	5 or 6 channels output mode (This mode is available for 2 channels input)
3	INPULSE --	This mode is development use only
4	CD/DIG1	This mode is the same status as FACTORY mode

4.1. Input selection mode (without setting to system setup menu)

This mode is available to select the input without setting to system setup menu by the following steps.
1. When FLD shows "AUTO D1"(Refer to "**4. Input and output test mode**"), the input can be shifted by pressing [**MODE**] button for the remote commander only each time as shown in Fig 2. ([**MODE**] button is in page4 of **AMP** function for RC-18SR*****)

Fig 2. Input selection order by pressing [**MODE**] button each time

ORDER	INDICATION for FLD	INPUT STATUS
1	AUTO D1	DIG. 1 IN
2	AUTO D2	DIG. 2 IN
3	AUTO D3	DIG. 3 IN
4	AUTO D4	DIG. 4 IN
5	AUTO RF	RF IN
6	AUTO CD	CD IN (Analog)

Note: Surround mode is fixed **"AUTO"** mode automatically.

4.2. 5.1 channels output mode

This mode is available to output the same signal from 5 channels, even though 2 channels audio signal comes in.
As the result, all channels output can be confirmed by using analog stereo signal or PCM audio signal.
AC-3 or DTS source is not necessary to output from any channel in this mode.

1. When FLD shows "ALL CH D1" (Refer to "**4. Input and output test mode**"), the input can be shifted by pressing [**MODE**] button for the remote commander only each time as shown in Fig 3.
([**MODE**] button is in page4 of **AMP** function for RC-18SR*****)
2. Supply to 2 channels PCM signal for digital input or 2 channels analog signal for analog input. But, Left channel and Right channel of input signal should be equal.
3. Then each output from the product is the same as the input signal. (Subwoofer channel is respond to lower than 80Hz signal)

Fig 3. Input selection order by pressing [**MODE**] button each time

ORDER	INDICATION for FLD	INPUT STATUS
1	ALL CH D1	DIG. 1 IN
2	ALL CH D2	DIG. 2 IN
3	ALL CH D3	DIG. 3 IN
4	ALL CH D4	DIG. 4 IN
5	ALL CH RF	RF IN
6	ALL CH CD	CD IN (Analog)

5. Transistor MUTE mode

In mute situation on the product, output signal is muted by Volume control IC and muting transistor.
But, this mode is available to work the muting transistor only by the following steps.
1. When the product is FACTORY mode (Refer to "**1. FACTORY mode**"), press [**MUTE**] button for remote commander only.
2. FLD shows **"TrMUTE ON"**, then muting transistor circuit is active only.

6. How to reset the product

When the product is POWER ON, press both [**CL**] and [**DISPLAY OFF**] buttons simultaneously.
FLD shows **"DEFAULT"** for 3 seconds, then all memories are cleared.

Note

***** : The remote controller RC2000mkII is available instead of RC-18SR for [**MODE**] button.

9. ELECTRICAL ADJUSTMENTS

1. DC offset adjustment

Master Volume : Minimum, Speaker out : non Load

Step	Power	Channel	Adjustment Point	Test Point	Adjustment Vaule
1	on	Front L	R715	Speaker Output Terminal	± 20mV
		Center	RT15		
		Front R	RP16		
		Surr. L	RP15		
		Surr. R	R716		

Note : If the measured value is not exceed ±20mV, no need to adjust the DC offset.

2. Iding current adjustment

Master Volume : Minimum, Speaker out : non Load

Step	Power	Channel	Adjustment Point	Test Point	Adjustment Vaule
1	Power on	Front L	R743	J713 or R773	within 1 minute 0.4mV
		Center	RT43	JT13 or RT73	
		Front R	RP44	JP04 or RP74	
		Surr. L	RP43	JP03 or RP73	
2	after 4 minutes	Surr. R	R744	J714 or R774	see table for adjustment vaule
				J***:4P Connecter (between 1p-4p) R***:Emitter Resister [0.1Ω x 2 (0.18Ω x 2)]	

Time since power on	Idling current adjust.	Time since power on	Idling current adjust.
4–4 minutes 30 seconds	5.6mV (11.8mV)	11-12 minutes	8.0mV(16.6mV)
4m30s–5 minutes	6.4mV(13.1mV)	12-14 minutes	7.6mV(15.9mV)
5–5 minutes 30 seconds	7.2mV(14.1mV)	14-16 minutes	7.2mV(15.4mV)
5m30s–6 minutes	7.7mV(14.9mV)	16-18 minutes	6.5mV(14.8mV)
6–7 minutes	6.2mV(15.5mV)	18-22 minutes	5.6mV(13.5mV)
7-8 minutes	8.6mV(16.2mV)	22-26 minutes	4.9mV(12.2mV)
8-9 minutes	8.8mV(16.5mV)	26-30 minutes	4.4mV(11.0mV)
9-10 minutes	8.6mV(17.0mV)	more than 30 minutes	4.0mV(10.0mV)
10-11 minutes	8.4mV(16.8mV)		The taget is 4.0mV(7.2mV)

( ) : SR-19 only

3. Thermostat circuit confirmation

1) When the product is POWER ON, remove the wire W701 from the connector J715 (P704).
2) FLD shows **"ERROR PWR1"**.
3) Confirm the product is POWER OFF after 3 seconds.
4) Connect the wire W701 to the connector J715 (on P704).
5) Confirm the product is standby status.

4. Cooling fan confirmation

4.1 Fan failure sensor confirmation

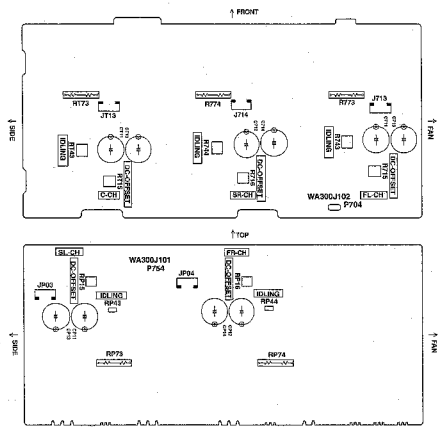
1) Set to be SPK output 1W from the front channel.
2) Connect the 1pin (LOCK) of the connecter JN10 (on P754) to chassis (GND level) by a wire.
3) After 6 seconds the SPK relay works, and the SPK output isn't output.

4.2 Temperature sensor confirmation

1) Connect a resistor (470ohms 1W) between JN10 3pin (T-2CH) and DC +12Voltages.
2) Confirm the cooling fan starts working. (Status : JN09 between 1pin and 2pin = **+7.5Voltage**, Fan speed = **Low**)
3) Remove the resistor.
4) Confirm the cooling fan stops.
5) Connect the resistor between JN10 4pin (T-3CH) and DC +12Voltage.
6) Confirm the cooling fan starts working again.
7) Remove the resistor.
8) Confirm the cooling fan stops.
9) Connect the resistor between JN10 3pin (T-2CH) and DC +12Voltage. And then connect another resistor between JN10 4pin (T-3CH) and DC +12Voltage.
10) Confirm the cooling fan starts working.
11) And then connect the resistor between JN10 2pin (SPEED) and DC +12Voltage.
12) Confirm the cooling fan changes to work with high speed. (Status : JN09 between 1pin and 2pin = **+11.5Voltage**, Fan speed = **High**)

4.3 Fan catching a foreign body sensor confirmation

1) Connect the resistor (470ohms 1W) between JN10 3pin (T-3CH) and DC +12Voltage.
2) Confirm the cooling fan starts working. (Status : JN09 between 1pin and 2pin=**+7.5Voltage**, Fan speed = **Low**)
3) Set to be SPK output 1W from the front channel.
4) Hold the cooling fan by hand and stop it.
   Notes: Take care of wound in the hand!
5) After 6 seconds the SPK relay works and the SPK output isn't output.



10. ALIGNMENT PROCEDURES

1. AM IF Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	999 kHz (K, N, S, F) 1000 kHz (U)	Level 300 μV/m (50dB/m) Mod. 400 Hz 30%	Tuning point	LA06	Output level (L or R) **Maximum** at TAPE-OUT

REMARK: For receiving antenna, the adapted one is available.
This adjustment is not necessary normally, because the coil LA06 is preset by the original supplier.
It is necessary when the incorrect usable sense and frequency response.

2. AM (MW) Tracking Adjustment

Step	**Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	603 kHz (K, N, S, F) 600 kHz (U)	Level 300 - 400 μV/m Mod. 400 Hz 30%	603 kHz (K, N, S, F) 600 kHz (U)	LA01	Output level (L or R) **Maximum** at TAPE-OUT
2		1404 kHz (K, N, S, F) 1400 kHz (U)	Level 300 - 400 μV/m Mod. 400 Hz 30%	1404 kHz (K, N, S, F) 1400 kHz (U)	CA01	Output level (L or R) **Maximum** at TAPE-OUT
3	Repeat step 1 and 2 until sensitivity be maximized.					

3. AM (LW) Tracking Adjustment [N version]

Step	**Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	171 kHz	Level 300 - 400 μV/m Mod. 400 Hz 30%	171 kHz	LA03	Output level (L or R) **Maximum** at TAPE-OUT
2		270 kHz	Level 300 - 400 μV/m Mod. 400 Hz 30%	270 kHz	CA08	Output level (L or R) **Maximum** at TAPE-OUT
3	Repeat step 1 and 2 until sensitivity be maximized.					

4. AM auto stop Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	999 kHz (K, N, S, F) 1000 kHz (U)	500 μV/m (54 dB/m)	999 kHz (K, N, S, F) 1000 kHz (U)	RA11	**"TUNED"** indicate on FLD
2			1000 μV/m (60 dB/m)	AUTO SCAN	Only Confirm	**"TUNED"** indicate on FLD

5. FM MONO. Distortion Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	500 μV (54 dB) MONO 1 kHz / Dev.40kHz 53.3% (K, N, S) MONO 1 kHz / Dev. 75 kHz 100% (U, F)	98 MHz (P2)	L201	Distortion level **Minimum** at TAPE-OUT

6. FM Muting Level Adjustment

Turn the variable resistor **R212** to no indication ("TUNED") point. And return that valuable resistor in opposite to the "**TUNED**" indicate point.

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	10 μV (20 dB) MONO 1 kHz / Dev.40 kHz 53.3% (K, N, S) MONO 1 kHz / Dev. 75 kHz 100% (U,F)	98 MHz (P2) 83 MHz (P2)	R212	**"TUNED"** indicate on FLD
2			Over mentioned level **+3 dB**	AUTO SCAN	Only Confirm	**"TUNED"** indicate on FLD

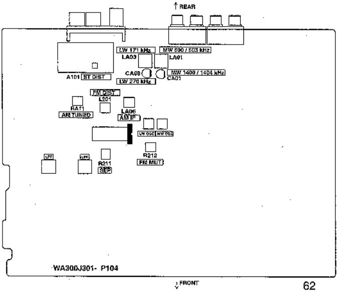
7. FM STEREO Distortion Adjustment

Adjust the **L channel** with the RF signal modulated only **L channel** first and confirm the **R channel** with the RF signal modulated only **R channel**.

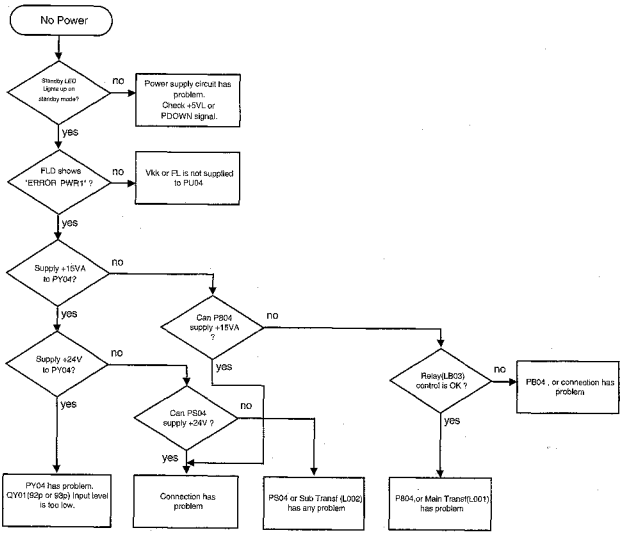
Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	500 μV (54 dB) L or R 1 kHz / Dev. 40 kHz 53.3% PILOT 19 kHz / Dev. 6 kHz 8% (K, N, S) L or R 1 kHz / Dev. 67.5 kHz 90% PILOT 19 kHz / Dev. 6.75 kHz 9% (U, F)	98 MHz (P2) 83 MHz (P2)	IF COIL in FRONT END	Distortion level **Minimum** at TAPE-OUT
2					Only Confirm	Distortion level **Simimlar** as L ch. at TAPE-OUT R ch.

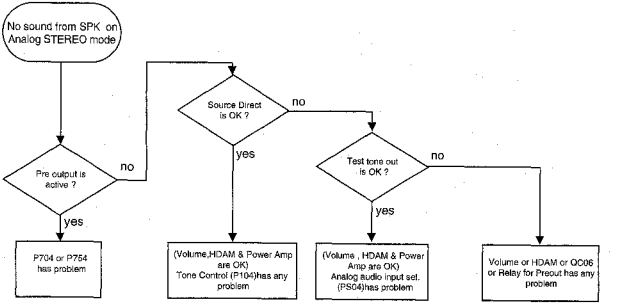
8. FM STEREO Separation Adjustment

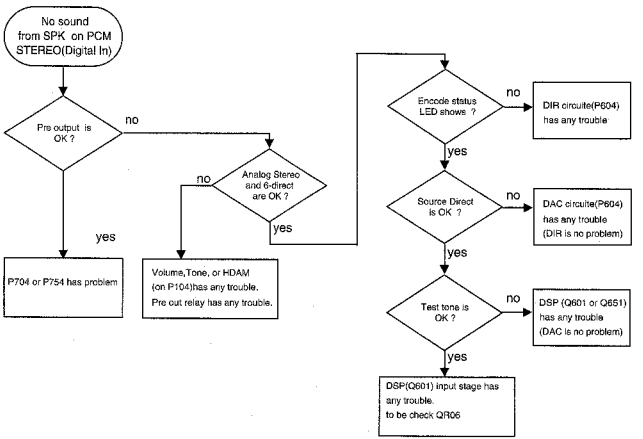
Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	same specification as **FM STEREO distortion adjustment.** Input only **L** channel.	98 MHz (P2) 83 MHz (P2)	R211	Output level **Minimum** at TAPE-OUT channel **R**
2		98 MHz (K, N, S, U) 83 MHz (F)	same specification as **FM STEREO distortion adjustment.** Input only **R** channel.	98 MHz (P2) 83 MHz (P2)	R211	Output level **Similar** as Rch at TAPE-OUT channel **L**

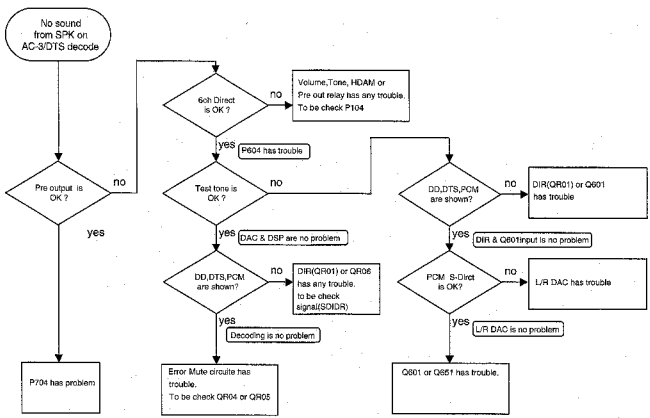


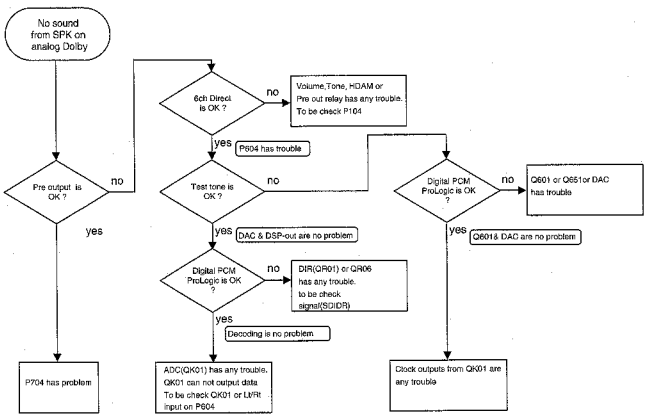
11. TROUBLE SHOOTING

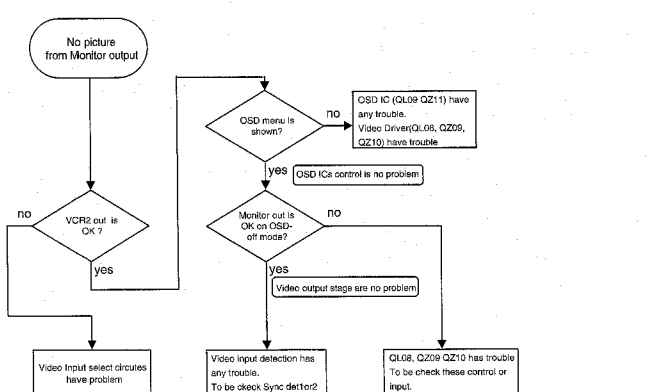



No sound from SPK on Analog STEREO mode
Source Direct is OK ?
no
yes
Pre output is active ?
no
yes
Test tone out is OK ?
no
yes
P704 or P754 has problem
(Volume,HDAM & Power Amp are OK) Tone Control (P104)has any problem
(Volume , HDAM & Power Amp are OK) Analog audio input sel. (PS04)has problem
Volume or HDAM or QC06 or Relay for Preout has any problem


No sound from SPK on PCM STEREO(Digital In)
Pre output is OK ?
no
yes
Analog Stereo and 6-direct are OK ?
no
yes
P704 or P754 has problem
Volume,Tone, or HDAM (on P104)has any trouble. Pre out relay has any trouble.
Encode status LED shows ?
no
yes
DIR circuite(P604) has any trouble
Source Direct is OK ?
no
yes
DAC circuite(P604) has any trouble (DIR is no problem)
Test tone is OK ?
no
yes
DSP (Q601 or Q651) has any trouble (DAC is no problem)
DSP(Q601) input stage has any trouble. to be check QR06


No sound from SPK on AC-3/DTS decode
Pre output is OK ?
no
yes
P704 has problem
6ch Direct is OK ?
no
yes
Volume,Tone, HDAM or Pre out relay has any trouble. To be check P104
P604 has trouble
Test tone is OK ?
no
yes
DAC & DSP are no problem
DD,DTS,PCM are shown?
no
yes
DIR(QR01) or QR06 has any trouble. to be check signal(SDIOR)
Decoding is no problem
Error Mute circuite has trouble. To be check QR04 or QR05
DD,DTS,PCM are shown?
no
yes
DIR(QR01) or Q601 has trouble
DIR & Q601input is no problem
PCM S-Dirct is OK?
no
yes
L/R DAC has trouble
L/R DAC is no problem
Q601 or Q651 has trouble.


No sound from SPK on analog Dolby
Pre output is OK ?
no
yes
P704 has problem
6ch Direct is OK ?
no
Volume,Tone, HDAM or Pre out relay has any trouble. To be check P104
yes
P604 has trouble
Test tone is OK ?
no
yes
DAC & DSP-out are no problem
Digital PCM ProLogic is OK ?
no
DIR(QR01) or QR06 has any trouble. to be check signal(SDIDR)
yes
Decoding is no problem
ADC(QK01) has any trouble. QK01 can not output data To be check QK01 or Lt/Rt input on P604
Digital PCM ProLogic is OK ?
no
Q601 or Q651or DAC has trouble
yes
Q601& DAC are no problem
Clock outputs from QK01 are any trouble


No picture from Monitor output
VCR2 out is OK ?
no
yes
Video Input select circutes have problem
OSD menu is shown?
no
OSD IC (QL09 QZ11) have any trouble. Video Driver(QL08, QZ09, QZ10) have trouble
yes
OSD ICs control is no problem
Monitor out is OK on OSD-off mode?
no
yes
Video output stage are no problem
Video input detection has any trouble. To be ckeck Sync detfor2 or Input to OSD IC
QL08, QZ09 QZ10 has trouble To be check these control or input.

12. TECHNICAL DESCRIPTION

This product has two DSP ICs, one is for Dolby Digital (AC-3) decoding or DTS (Digital Theater System) decoding, another is for THX processing.
Multi channel sound is reproduced by connecting with DVD player or LD player.
Also Dolby Pro Logic decode is available to analog audio and PCM digital audio.
Additionally, 96kHz PCM stereo audio playback is possible.
Decoding circuit is consist of 13 ICs (DIR, two DSP, ADC, five DAC, AC-3 RF demodulator, two data separator and CPU).

DOLBY DIGITAL (AC-3)

Dolby Digital delivers six totally separate (discrete) channels of sound. Like Dolby Surround Pro Logic, it includes Left, Center and Right channels across the front of the room. Dolby Surround Pro Logic provides a single limited-bandwidth (100 Hz to 7,000 Hz) surround channel which is typically played back in the home through two channels of amplification and two speakers. In comparison, Dolby Digital provides separate (discrete) left surround and right surround channels, for more precise localization of sounds and a more convincing, realistic ambience. And, with Dolby Digital, all five main channels are full range (3 Hz to 20,000 Hz). A subwoofer could be added to each channel, if desired.
The sixth channel, the Low Frequency Effects Channel, will, at times, contain additional bass information to maximize the impact of scenes such as explosions, crashes, etc. Because this channel has only a limited frequency response (3 Hz to 120 Hz), it is sometimes referred to as the ".1" channel. When added to the 5 full range channels, the Dolby Digital system is sometimes referred to as having "5.1" channels.

DTS

An amazing new technology for surround-sound entertainment, DTS Digital Surround is an encode/decode system that delivers six channels (5.1) of master-quality, 20-bit audio. In the encoding process, the DTS algorithm encrypts six channels of 20-bit digital audio information in the space previousiy allotted for only two channels of 16-bit linear PCM. Then during playback, the DTS decoder reconstructs the original six channels of 20-bit digital audio. Each of these six channels is audibly superior to the 16-bit linear PCM audio found on conventional compact discs.

THX ULTRA

Home THX Controller Technologies : Dubbing stages (where soundtracks are created) and movie theatres do not change their acoustics, equipment, or system equalization when mixing or playing back 5.1 channel sound tracks. They merely divide the surround array of speakers into two symmetrical arrays (hence the term "split surround"). All of the remaining system equalization and setup remains the same. The Home THX Technologies of Re-Equalization, Timbre Matching, and Decorrelation, as well as the Home THX Crossover are still necessary for 5.1 channel formats. Because of the nature of the split surround soundtrack, Home THX Timbre Matching and Decorrelation technologies have been altered to provide correct surround sound balance and spaciousness. Here is a representation of how Home THX Controller Technologies work with the various surround sound formats.

DIR (Digital audio Interface Receiver : QR01 / CS8414)

This circuit extract synchronized clock signals and data from SPDIF signal input.
QR01(CS8414) generates these signals, this chip supports 96kHz sample rate.

1st DSP (Digital Signal Processor for Dolby Digital, Pro Logic, DTS : Q601 / YSS912)

Q601(YSS912) decodes 6 channels audio from encoded data signal input.
Some effects are processed in addition to multi channel decoding on HALL, MATRIX, and MOVIE mode.

2nd DSP (Digital Signal Processor for THX processing : Q651 / ZR38600)

Q651(ZR38600) has the THX 5.1 processing functions. These functions include **Re-equalization, Surround Timbre-Matching, Adaptive Decorrelation, Bass Management, Bass Peak Level Manager,** and **Loudspeaker Position Time Synchronization.**

Re-equalization takes the edginess or "brightness" out of your home cinema sound, compensating for the fact that sound mixed for theatres will sound too bright when played back through flat response speakers in your home.

Timbre Matching matches the tone of your front speakers to your surrounds to compensate for the fact that only two surround speakers are used in a typical Home Theatre system instead of a full array as in a movie theatre.

Adaptive Decorrelation gives a stereo "feel" when your surrounds are playing mono and automatically switches off when they are playing stereo.

Bass Management Electronic Crossover allows you to use more compact, easier-to-place speakers, while sending bass to a subwoofer system, improving frequency response, lowering distortion and increasing dynamic range.

Bass Peak Level Manager protects your subwoofer from overloading due to the great amount of bass a 5.1 soundtrack delivers.

Loudspeaker Position Time Synchronization lets you easily set up your system for an optimum listening position, which is difficult to achieve within the space constraints of most homes.

ADC (Analog to Digital Converter : QK01 / CS5394)

CS5394 is a complete analog-to-digital converter for stereo digital audio systems. it performs sampling, analog-to-digital conversion and anti-alias filtering, generating 24 bit values for both left and right inputs in serial form.

DAC (Digital to Analog Converter : QD01, QD02, QD03 : QD41, QD42 / AD1855)

The AD1855 is a high performance, single-chip stereo,audio DAC. There are five AD1855 chips on the board. Four chips are used for L, R, C, and Sub woofer channel individually. Another chip is used for Surround Left & Right.

CPU (Q691 / μPD78018)

This chip controls some ICs in P604 and communicates with QU01.
Connect to QU01 with serial interface lines.

13. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R***: 1) GD05×××140, Carbon film fixed resistor, ±5% 1/4W
R***: 2) GD05×××160, Carbon film fixed resistor, ±5% 1/6W
① ——— Resistance value

Examples ;
①Resistance value
0.1Ω .... 001 10Ω .... 100 1kΩ 102 100kΩ 104
0.5Ω .... 005 18Ω .... 180 2.7kΩ 272 680kΩ 684
1Ω .... 010 100Ω .... 101 10kΩ 103 1MΩ 105
6.8Ω .... 068 390Ω .... 391 22kΩ 223 4.7MΩ 475
Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

C***: CERAMIC CAP.
3) DD1×××370, Ceramic capacitor
② ③ Disc type
Temp.coeff.P350 ~N1000, 50V
Capacity value
Tolerance

Examples ;
② Tolerance (Capacity deviation)
±0.25 pF 0
±0.5 pF 1
±5% 5
∗ Tolerance of COMMON PARTS handled here are as follows ;
0.5 pF ~ 5 pF .... ±0.25 pF
6 pF ~ 10 pF .... ±0.5 pF
12 pF ~ 560 pF .... ±5%
③ Capacity value
0.5 pF .... 005 3 pF .... 030 100 pF 101
1 pF .... 010 10 pF .... 100 220 pF 221
1.5 pF .... 015 47 pF .... 470 560 pF 561

C*** : CERAMIC CAP.
4) DK16×××300, High dielectric constant ceramic capacitor
④ Disc type
Temp.chara. 2B4, 50V
Capacity value

Examples ;
④ Capacity value
100 pF .... 101 1000 pF .... 102 10000 pF 103
470 pF .... 471 2200 pF 222

C*** : 5) ELECTROLY CAP.(⏚), 6) FILM CAP.(⏚)
5) EA××××××10, Electrolytic capacitor
⑤ ⑥ One-way lead type, Tolerance ±20%
Working voltage
Capacity value

Examples ;
⑤ Capacity value
0.1 μF .... 104 4.7 μF .... 475 100 μF 107
0.33 μF .... 334 10 μF .... 106 330 μF 337
1 μF .... 105 22 μF .... 226 1100 μF 118
2200 μF 228
⑥ Working voltage
6.3V 006 25V 025
10V 010 35V 035
16V 016 50V 050

6) DF15×××350 ——→ Plastic film capacitor
DF15×××310 ——→ One-way type, Mylar ±5% 50V
DF16×××310 ——→ Plastic film capacitor
⑦ One-way type, Mylar ±10% 50V
Capacity value

Examples ;
⑦ Capacity value
0.001 μF(1000 pF) ..... 102 0.1 μF 104
0.0018 μF ..... 182 0.56 μF 564
0.01 μF ..... 103 1 μF 105
0.015 μF 153

NOTE : 1) The above CODES (R***, R***, C***, C*** and C***) are omitted on the schematic diagram in some case.
2) On the occasion, be confirmed the common parts on the parts list.
3) Refer to "Common Parts List" for the other common parts (**RI05**, **DD4**, **DK4**).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;
1. KOA Corporation

Part No. (MJI)	Type No. (KOA)	Description
NH05×××140	——→ RF25S××××ΩJ	(±5% 1/4W)
NH05×××120	——→ RF50S××××ΩJ	(±5% 1/2W)
NH85×××110	——→ RF73B2A××××ΩJ	(±5% 1/10W)
NH95×××140	——→ RF73B2E××××ΩJ	(±5% 1/4W)

∗ Resistance value — Resistance value (0.1 Ω ~ 10 kΩ)

2. Matsushita Electronic Components Co., Ltd

Part No. (MJI)	Type No. (MEC)	Description
NF05×××140	——→ ERD-2FCJ×××	(±5% 1/4W)
RF05×××140		
NF02×××140	——→ ERD-2FOG×××	(±2% 1/4W)
RF02×××140		

∗ Resistance value — ∗ Resistance value

Examples ;
∗ Resistance value
0.1 Ω .... 001 10 Ω .... 100 1 kΩ .... 102 100 kΩ 104
0.5 Ω .... 005 18 Ω .... 180 2.7 kΩ .... 272 680 kΩ 684
1 Ω .... 010 100 Ω .... 101 10 kΩ .... 103 1 MΩ 105
6.8 Ω .... 068 390 Ω .... 391 22 kΩ .... 223 4.7 MΩ 475

ABBREVIATION AND MARKS

ANT.	: ANTENNA	BATT.	: BATTERY
CAP.	: CAPACITOR	CER.	: CERAMIC
CONN.	: CONNECTING	DIG.	: DIGITAL
HP	: HEADPHONE	MIC.	: MICROPHONE
μ-PRO	: MICROPROCESSOR	REC.	: RECORDING
RES.	: RESISTOR	SPK	: SPEAKER
SW	: SWITCH	TRANSF.	: TRANSFORMER
TRIM.	: TRIMMING	TRS.	: TRANSISTOR
VAR.	: VARIABLE	XTAL	: CRYSTAL

NOTE ON SAFETY :

Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol ⚠ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 :

⚠ がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			P104- FM/AM TUNER	
			TONE VOL. CIRCUIT BOARD	
			P104-CAPACITORS	
C201		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C202		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C203		4822 122 40306	CER. 0.047μF +80%-20% Z 50V	DK18473310
C204		4822 122 40306	CER. 0.047μF +80%-20% Z 50V	DK18473310
C205		4822 124 42182	ELECT. 3.3μF M 50V	OA33505020
C206		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C207		4822 124 30353	ELECT. 100μF M 10V RA-2	OA10701020
C208		4822 122 40306	CER. 0.047μF +80%-20% Z 50V	DK18473310
C209		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C210		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C211		4822 124 40763	ELECT. 2.2μF M 50V RA-2	OA22505020
C212		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
C213		4822 124 22273	ELECT. 0.47μF M 50V RA-2	OA47405020
C214		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620
C215		4822 122 40306	CER. 0.047μF +80%-20% Z 50V	DK18473310
C216		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
C218		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C219		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C223		4822 122 40586	CER. 10000pF ±20%	DA17103110
C225		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C226		4822 122 40586	CER. 10000pF ±20%	DA17103110
C233		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C234		4822 124 80067	ELECT. 4.7μF M 50V RA-2	OA47505020
C235		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C236		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C237		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C303		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C304		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C305	/K,/N,/S	4822 124 80067	ELECT. 4.7μF M 50V RA-2	OA47505020
C305	/U		JUMPER	75060501P0
C306	/K,/N,/S	4822 124 80067	ELECT. 4.7μF M 50V RA-2	OA47505020
C306	/U		JUMPER	75060501P0
C311		4822 124 80067	ELECT. 4.7μF M 50V RA-2	OA47505020
C312		4822 124 80067	ELECT. 4.7μF M 50V RA-2	OA47505020
C313	/K,/N,/S	4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620
C314	/K,/N,/S	4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620
C315	/K,/N,/S	4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C316	/K,/N,/S	4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C351	/N,/S	4822 122 40586	CER. 10000pF ±20%	DA17103110
C352	/N,/S	5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C356	/N,/S	4822 126 11553	CER. 15pF ±5% 50V	DA15150120
C357	/N,/S	4822 126 11553	CER. 15pF ±5% 50V	DA15150120
C358	/N,/S	5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C361				
C364	/N,/S	4822 126 10364	CER. 100pF ±10%	DA16101110
C365	/N,/S	4822 124 41539	ELECT. 47μF M 16V	OA47601620
C366	/N,/S	4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
C373	/N,/S	4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C374	/N,/S	4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
C501		4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
C502		4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
C503		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
C504		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C505		4822 124 40763	ELECT. 2.2μF M 50V	OA22505020
C507		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C508		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
C511		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CA01		4822 125 50384	TRIM. 20pF VCT51E	CT12000200
CA02		4822 122 40306	CER. 0.047μF +80%-20% Z 50V	DK18473310
CA03		4822 122 31203	CER. 15pF ±5% CH 50V BLK	DD15153000
CA04		4822 121 42466	FILM 390pF 100V ECQ-P	DF15391550
CA05		4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
CA06		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CA07	/N	4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CA08	/N	4822 125 50384	TRIM. 20pF VCT51E	CT12000200
CA09	/N	4822 122 31823	CER. 15pF ±5% CH 50V BLK	DD15150300
CA11	/N	4822 122 31349	CER. 68pF ±5% CH 50V BLK	DD15680300
CA12	/N	4822 122 10367	CER. 150pF ±5% CH 50V BLK	DD15151300
CA13	/N	4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CA14	/N	4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CA18		4822 124 80067	ELECT. 4.7μF M 50V RA-2	OA47505020
CC07		5322 124 21731	ELECT. 10μF 50V RA-2	OA10605020
CC08		5322 124 21731	ELECT. 10μF 50V RA-2	OA10605020
CC18		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CC23				
		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CC26				
CC27	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
CC28	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
CC31		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
CC32		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
CC33		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CC34		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CC35		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CC36		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CC39				
		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CC42				
CC43		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CC44		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CC47		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CC48		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CC51		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CC52		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CC55		4822 122 31237	CER. 82pF ±5% 50V	DD15820300
CC56		4822 122 31237	CER. 82pF ±5% 50V	DD15820300
CC57		4822 124 11947	ELECT. BP 10μF 16V	EQ10601630
CC58		4822 124 11947	ELECT. BP 10μF 16V	EQ10601630
CC59		4822 124 90354	ELECT. 100μF 16V	OA10701620
CC60		4822 124 90354	ELECT. 100μF 16V	OA10701620
CC61		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CC62		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CC71		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CC72		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CC77		4822 124 41796	ELECT. 22μF M 16V	OA22601620
CC78		4822 124 41796	ELECT. 22μF M 16V	OA22601620
CC79		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
CC80		4822 122 30043	CER. 10pF D CH 50	DK18103310
CC81		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
CC82		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CF01		4822 124 41796	ELECT. 22μF M 16V	OA22601620
CF02		4822 124 41796	ELECT. 22μF M 16V	OA22601620
CF03		4822 122 31237	CER. 82pF ±5% 50V	DD15820300
CF04		4822 122 31237	CER. 82pF ±5% 50V	DD15820300
CF05		5322 124 21731	ELECT. 10μF 50V	OA10605020
CF06		5322 124 21731	ELECT. 10μF 50V	OA10605020
CF15		5322 124 21731	ELECT. 10μF 50V	OA10605020
CF16		5322 124 21731	ELECT. 10μF 50V	OA10605020
CF17		4822 124 41796	ELECT. 22μF M 16V	OA22601620
CF18		4822 124 41796	ELECT. 22μF M 16V	OA22601620
CF19		4822 126 10364	CER. 100pF ±10%	DA16101110
CF20		4822 126 10364	CER. 100pF ±10%	DA16101110
CF21		5322 124 21731	ELECT. 10μF 50V	OA10605020
CF22		5322 124 21731	ELECT. 10μF 50V	OA10605020
CF31		5322 124 21731	ELECT. 10μF 50V	OA10605020
CF32		5322 124 21731	ELECT. 10μF 50V	OA10605020
CF33		4822 124 90354	ELECT. 100μF 16V	OA10701620
CF34		4822 124 90354	ELECT. 100μF 16V	OA10701620
CF35		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CF36		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CF37		4822 124 90354	ELECT. 100μF 16V	OA10701620

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CF38		4822 124 90354	ELECT. 100µF 16V	OA10701620
CF39		4822 122 90043	CER. 0.01µF +80%-20% Z 50V	DK18103310
CF40		4822 122 90043	CER. 0.01µF +80%-20% Z 50V	DK18103310
CG51			ELECT. 22µF M 25V ARS	OA22602540
CG52			ELECT. 22µF M 25V ARS	OA22602540
CG53			ELECT. 22µF M 25V ARS	OA22602540
CG54		5322 124 21731	ELECT. 10µF 50V	OA10605020
CG55			ELECT. 22µF M 25V ARS	OA22602540
CG56			ELECT. 22µF M 25V ARS	OA22602540
CG57			CER. 0.1µF +80%-20% 50V DC	DD38104010
CG59		4822 124 90354	ELECT. 100µF 16V	OA10701620
CG60		4822 124 90354	ELECT. 100µF 16V	OA10701620
CG61		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CG62		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CG63 § CG66		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CG67		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CG68		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CG69		4822 124 90354	ELECT. 100µF M 16V	OA10701620
CG70		4822 124 90354	ELECT. 100µF M 16V	OA10701620
CG71		4822 122 40586	CER. 0.01UF	DA17103110
CG72		4822 122 40586	CER. 0.01 UF	DA17103110
CV01		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CV02		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
C****			**P104-CAPACITORS (COMMON)** HIGH DIELECTRIC CONSTANT CER. CAPACITOR ±10% 50V : C220 C222 C227[/U] C317[/K,/N,/S] C318[/K,/N,/S] C353[/N,/S] C354[/N,/S] C367 C368 C371 C372 C510 CC63 CC89-CC92[/N,/S] CV03 CV05-CV07	
D***			PLASTIC FILM CAPACITOR ±5% 50V : C217 C301 C302 C309[/K] C310[/K] CC01-CC04 CC14-C17 CC75 CC76 CF07-CF14 CF23-CF30	
▲ R101	/U		**P104-RESISTORS** 10kΩ ±5% 1/2W	GC05103120
R201	/U		JUMPER	75060501P0
▲ R207		4822 050 21801	180Ω ±5% 1/4W	GC05181140
R211	/K,/N,/S	4822 100 11352	TRIM. 22kΩ RH0638CJ4R	RA02230780
R211	/U	4822 100 11351	TRIM. 10kΩ RH0638CS3R	RA01030780
R212		4822 100 11351	TRIM. 10kΩ RH0638CS3R	RA01030780
▲ R217		4822 050 21801	180Ω ±5% 1/4W	GC05181140
R301 § R304	/U		JUMPER	75060501P0
▲ R313	/K,/N,/S	4822 116 83929	220Ω ±5% 1/4W	GC05221140
▲ R314	/K,/N,/S	4822 116 83929	220Ω ±5% 1/4W	GC05221140
▲ R356	/N,/S	4822 053 10471	470Ω ±5% 1W	GA05471010
▲ R512		4822 053 10271	270Ω ±5% 1W	GA05271010
RA11		4822 100 11351	TRIM. 10kΩ RH0638CJ4R	RA01030780
RC01			JUMPER	75060501P0
RC02			JUMPER	75060501P0
RC16			JUMPER	75060501P0
RC19			JUMPER	75060501P0
RC51			JUMPER	75060501P0
RC52			JUMPER	75060501P0
RC91			JUMPER	75061251P0
RC92			JUMPER	75061251P0
RF37			JUMPER	75060501P0

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RF38			JUMPER	75060501P0
RG55			JUMPER	75060501P0
RG56			JUMPER	75060501P0
RG59			JUMPER	75060501P0
RG60			JUMPER	75060501P0
R****			**P104-RESISTORS (COMMON)** CARBON FILM FIXED RES. ±5% 1/6W : R201[/K,/N,/S] R202-R206 R208-R210 R213-R216 R220 R221[/N,/S] R301-R304[/N,/S] R307-R310 R315 R316 R352-R354[/N,/S] R357[/N,/S] R502 R504-R507 R508[/N,/S] R509-R511 R513 R515 RA01 RA02 RA03[/N] RC04[/N] RC06-RA10[/N] RC03-RC18 RC20-RC33 RC35-RC42 RC53-RC62 RC71-RC82 RF01-RF36 RF39-RF46 RF48 RF49 RG51-RG54 RV01-RV14	
			P104-SEMICONDUCTORS	
D201		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D202		4822 130 80319	ZENER DIODE 9.1V RD9.1JB2 MTZJ9.1C	HD30911000
D351	/N,/S	4822 130 80317	ZENER DIODE 5.1V RD5.1JB2 MTZJ5.1B	HD30511000
D501		4822 130 80317	ZENER DIODE 5.1V RD5.1JB2 MTZJ5.1B	HD30511000
D502	/N	4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D503	/N	4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D516		4822 130 32362	DIODE 1S133	HD20002000
DA01		4822 125 50416	VARICAP SVC342-L	HD40009030
DA02	/K,/N,/S		JUMPER	75060501P0
DA02	/U		JUMPER	75060501P0
DA03	/N	4822 125 50416	VARICAP SVC342-L	HD40009030
DA04	/N	4822 130 33697	DIODE 1S135	HD20017210
DA05		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DA06		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DF01		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DF02		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DF03		9965 000 01363	DIODE 1SS201	HE10201050
DF04		9965 000 01363	DIODE 1SS201	HE10201050
DV05		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DV06 § DV12		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DV13		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
Q201		9965 000 01369	IC LA1837 FM AM IF MPX	HC10384030
Q202		4822 130 62294	TRS. 2SC1809S P 150MW 500MHz	HT31809P0
Q203		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
Q204		4822 130 42594	DIG.TRS. DTC144ES UN4213 47k 47k	BA20002000

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
Q209	/N,/S	4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199 ETC	HT30001000
Q301	/K,/N,/S	4822 209 83631	IC NJM4558D-D	HC10008090
Q351	/N,/S	4822 209 16175	IC LC72720L RDS DECODER	HC10385030
Q352	/N,/S	4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
Q353	/N,/S	4822 130 60588	DIG.TRS. DTC114ES UN4211 10k 10k	BA20001000
Q501		9965 000 01370	IC TDA2030	HC10394030
QA01	/N	4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QA02	/N	4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QA03	/N	4822 130 61692	TRS. 2SD2144S U OR V	HT421442A0
QA04	/N	4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QA05	/N	4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QA06	/N	4822 130 60588	DIG.TRS. DTC114ES UN4211 10k 10k	BA20001000
QC01 ⟩ QC05		4822 209 73064	IC NJM2068DD	HC10053090
QC06		4822 209 32554	IC LC78213	HC10310030
QC07		4822 209 62784	IC TC9215P	HC10282050
QC51		4822 209 31153	IC NJM2114D OP-AMP	HC10111090
QC71		4822 209 31153	IC NJM2114D OP-AMP	HC10111090
QC72		4822 209 62784	IC TC9215P ANALOGUE SW	HC10262050
QF01		4822 209 73064	IC NJM2068DD	HC10053090
QF02		9965 000 01365	IC TC9184AP ELE.TONE	HC10444050
QF03		4822 209 73064	IC NJM2068DD	HC10053090
QF04		9965 000 01365	IC TC9184AP ELE.TONE	HC10444050
QG51		9965 000 01373	IC TC9459P ELE-VOL	HC10449050
QG52		9965 000 01373	IC TC9459P ELE-VOL	HC10449050
QG53		9965 000 01373	IC TC9459P ELE-VOL	HC10449050
QG54		4822 209 91175	IC OP-AMP NJM2113M	HC10175090
QG55		4822 209 91175	IC OP-AMP NJM2114M	HC10175090
QV01		4822 209 90532	IC NJU3713D	HC10181090
QV02 ⟩ QV05		4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
QV06		4822 130 60588	DIG.TRS. DTC114ES UN4211 10k 10k	BA20001000
QV07 ⟩ QV12		4822 130 43816	TRS. 2SC2878 A OR B RANK	HT328782A0
			P104-MISCELLANEOUS	
A101		9965 000 01368	VHF TUNER TFFJ4E	AV00903010
P201	/K,/N,/S	4822 242 70665	CER. FILTER SFE10.7MS3-A	FF11070620
P201	/U	4822 242 70911	CER. FILTER SFF10.7MA6-A	FF11070610
P202		4822 242 70665	CER. FILTER SFE10.7MS3-A	FF11070620
FA01			CER. FILTER SFZ450JL3 451K	FF10045410
J101		4822 290 81632	TERMINAL YK031-0215A FM AM ANT PAL	YT03030020
JC05		9965 000 01315	TERMINAL 2P DIRECT IN GLD BL BL CNT SWF	YT02021550
JC06		9965 000 01316	TERMINAL YKC21-3953 GLD W R SURR.IN L R	YT02021500
L201		4822 157 63904	I.F.T. COIL FM DET M292BEAS-5968Z	LI70376010
L301		4822 157 71731	M.P.X. COIL LPF-V10-A1 19/38KHz	LS10293020
L302		4822 157 71731	M.P.X. COIL LPF-V10-A1 19/38KHz	LS10293020
L350 ⟩ L356	/N,/S	4822 157 62911	CHOKE COIL 3.3µH LAL02TA3R3JH	LC13323800

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
L359	/N,/S	4822 157 62911	CHOKE COIL 3.3µH LAL02TA3R3JH	LC13323800
L501 ⟩ L504		4822 157 70813	CHOKE COIL 47µH LAL02TA470J	LC14733800
LA01		4822 157 63084	MW ANT COIL 290uH	LA10295170
LA02		4822 157 70779	OSC. COIL MW OSC C01L	LO70013010
LA03	/N	4822 157 52714	ANT COIL LW ANT COIL	LA10296160
LA04	/N	4822 157 70761	OSC. COIL LW OSC COIL	LO70013020
LA05		4822 157 53586	CHOKE COIL 39MH J	LC23693710
LA06		4822 148 81095	I.F.T. COIL AM IFT K7-H5 FOR SFP450D	LI70033510
S301	/K		SLIDE SWITCH SSSS82	SS02021470
X351	/N,/S	4822 242 10857	CRYSTAL 4.332MHz AT-49	JX04063260
X501		4822 242 72333	CRYSTAL AD0618CTB 7.2MHz	JX07001260
			P604- AC-3 DTS & THX DECODE CIRCUIT BOARD	
			P604-CAPACITORS	
C601		4822 126 11703	CER. CHIP 0.01µF +80%-20%	DK98103300
C602		4822 126 11703	CER. CHIP 0.01µF +80%-20%	DK98103300
C603		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C604		4822 126 11703	CER. CHIP 0.01µF +80%-20%	DK98103300
C605		4822 126 11703	CER. CHIP 0.01µF +80%-20%	DK98103300
C606		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C607		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C608		4822 122 33761	CER. CHIP 22pF ±5% CG 50V	DD95220300
C609		4822 122 33761	CER. CHIP 22pF ±5% CG 50V	DD95220300
C610		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C611		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C612		4822 126 11566	CER. CHIP 470pF ±10%	DK98471300
C613		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C614		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C615		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C616		5322 126 11583	CER. CHIP 0.01µF ±10% B 25V	DK98103200
C617		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C618		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C619		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C620		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C621		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C622		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C623		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C624		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C625		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C651		4822 126 11703	CER. CHIP 0.01µF +80%-20%	DK98103300
C652		4822 126 11703	CER. CHIP 0.01µF +80%-20%	DK98103300
C653		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C654		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C655		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C656		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C657		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C658 ⟩ C662		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C663		4822 126 13996	CER. CHIP 0.047µF ±10% 16V	DK96473200
C664		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C666		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C667		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C668		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C669		4822 126 14417	CER. CHIP 0.01µF B 50V	DK96103300
C670		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C680		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C691		4822 126 14417	CER. CHIP 0.01µF B 50V	DK96103300
C692		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C693		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C694		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C695		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C696		5322 126 11583	CER. CHIP 0.01µF ±10% B 25V	DK96103200

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ)
C697		5322 126 11583	CER. CHIP 0.01µF ±10% B 25V	DK98103200
C001		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C002		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C003		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C005		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C006		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C007		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C009		4822 124 21894	ELECT. 10µF 16V	EJ10601610
C010		4822 124 21894	ELECT. 10µF 16V	EJ10601610
C011		4822 124 21894	ELECT. 10µF 16V	EJ10601610
C013		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C014		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C015		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C017		4822 124 21894	ELECT. 10µF 16V	EJ10601610
C018		4822 124 21894	ELECT. 10µF 16V	EJ10601610
C019		4822 124 21894	ELECT. 10µF 16V	EJ10601610
C021		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C022		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C023		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C025		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C026		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C027		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C029		5322 126 11578	CER. CHIP 1000pF B 50V	DK96102300
C030		5322 126 11578	CER. CHIP 1000pF B 50V	DK96102300
C031		5322 126 11578	CER. CHIP 1000pF B 50V	DK96102300
C041		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C042		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C043		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C044		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C045		4822 124 21894	ELECT. 10µF 16V	EJ10601610
C046		4822 124 21894	ELECT. 10µF 16V	EJ10601610
C047		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C048		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C049		4822 124 21894	ELECT. 10µF 16V	EJ10601610
C050		4822 124 21894	ELECT. 10µF 16V	EJ10601610
C051		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C052		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C053		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C054		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C055		5322 126 11578	CER. CHIP 1000pF B 50V	DK96102300
C056		5322 126 11578	CER. CHIP 1000pF B 50V	DK96102300
C061		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C062		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C063				
⟆		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C074				
C081				
⟆		4822 126 11703	CER. CHIP 0.01µF +80%-20%	DK98103300
C092				
C093				
⟆		9965 000 01318	ELECT. 220µF M 10V RA-2	OA22701020
C096				
C097		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
C098		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
C101		5322 122 32654	CER. CHIP 0.022µF ±10% 16V	DK96223200
C602		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C603		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C604		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C605		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C606		5322 126 11578	CER. CHIP 1000 ±10% B 50V	DK96102300
C611		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C613		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C614		4822 122 33753	CER. CHIP 150 ±5% CG 50V	DD95151300
C615		4822 122 33753	CER. CHIP 150 ±5% CG 50V	DD95151300
C618		4822 126 13837	CER. CHIP 0.1µF ±10% B 10V	DK96104200
C619		4822 126 14417	CER. CHIP 0.01µF ±10% 50V	DK96103300
C633		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C634		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ)
C635		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C636		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C637		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C639		4822 124 12389	ELECT. BP 47µF 16V	EQ47601630
C642		4822 126 14417	CER. CHIP 0.01µF ±10% 50V	DK96103300
C643		4822 126 14417	CER. CHIP 0.01µF ±10% 50V	DK96103300
C644		4822 122 33752	CER. CHIP 18pF 50V ±5%	DD95150300
C645		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C646		4822 126 13689	CER. CHIP 18pF	DD95180300
C651		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C652		5322 126 11578	CER. CHIP 1000pF B 50V	DK96102300
C653		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C654		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C656				
⟆		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C660				
C661		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C662		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C663		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
C665		4822 126 11703	CER. CHIP 0.01µF +80%-20%	DK98103300
C666		4822 126 11703	CER. CHIP 0.01µF +80%-20%	DK98103300
CH05				
⟆		4822 121 10792	FILM CAP 220pF ±5% 100V	OF15221540
CH08				
CH14		4822 124 81151	ELECT. 22µF M 25V ARA	OA22602550
CH15				
⟆		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CH18				
CH26		4822 124 81151	ELECT. 22µF M 25V ARA	OA22602550
CH27		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CH28		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CH31		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CH32		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CH33		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CH34		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CH35		4822 122 33761	CER. CHIP 22pF ±5% CG50V	DD95220300
CH36		4822 122 33761	CER. CHIP 22pF ±5% CG50V	DD95220300
CH55				
⟆		4822 121 10792	FILM CAP 220pF ±5% 100V	OF15221540
CH58				
CH64		4822 124 81151	ELECT. 22µF M 25V ARA	OA22602550
CH65				
⟆		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CH68				
CH76		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CH77		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CH78		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CH81		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CH82		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CH83		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CH84		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CH85		4822 122 33761	CER. CHIP 22pF ±5% CG50V	DD95220300
CH86		4822 122 33761	CER. CHIP 22pF ±5% CG50V	DD95220300
CJ05				
⟆		4822 121 10792	FILM CAP 220pF ±5% 100V	OF15221540
CJ08				
CJ11		4822 124 81151	ELECT. 22µF M 25V ARA	OA22602550
CJ12		4822 124 81151	ELECT. 22µF M 25V ARA	OA22602550
CJ13				
⟆		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CJ16				
CJ17		4822 122 33761	CER. CHIP 22pF ±5% CG50V	DD95220300
CJ18		4822 122 33761	CER. CHIP 22pF ±5% CG50V	DD95220300
CJ21		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CJ22		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CJ23		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CJ24		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CJ55				
⟩		4822 121 10792	FILM CAP 220pF ±5% 100V	OF15221540
CJ58				
CJ59		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CJ60		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CJ61		4822 122 33761	CER. CHIP 22pF ±5% CG50V	DD95220300
CJ62		4822 122 33761	CER. CHIP 22pF ±5% CG50V	DD95220300
CJ75				
⟩		4822 121 10792	FILM CAP 220pF ±5% 100V	OF15221540
CJ78				
CJ79		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CJ80		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CJ81		4822 122 33761	CER. CHIP 22pF ±5% CG50V	DD95220300
CJ82		4822 122 33761	CER. CHIP 22pF ±5% CG50V	DD95220300
CK01				
⟩		4822 124 90352	ELECT. 10µF M 16V RA-2	OA10601620
CK04				
CK05				
⟩		4822 126 11686	CER. CHIP 470pF ±5% SL	DD95471370
CK06				
CK11				
⟩		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CK20				
CK21		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CK22		4822 124 21894	ELECT. 10µF 16V	EJ10601610
CK23		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CK24		5322 126 11583	CER. CHIP 0.01µF ±10% B 25V	DK98103200
CK25		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CK26		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CK27				
⟩		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CK31				
CK33		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CK34		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CK35				
⟩		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CK40				
CK41		4822 124 21894	ELECT. 10µF 16V	EJ10601610
CK42		4822 124 21894	ELECT. 10µF 16V	EJ10601610
CK43		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CK44		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CK45		4822 122 33761	CER. CHIP 22pF ±5% CG50V	DD95220300
CK46		4822 122 33761	CER. CHIP 22pF ±5% CG50V	DD95220300
CR01		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CR02		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CR03		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CR04		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CR05		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CR06		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CR07		4822 126 13837	CER. CHIP 0.1µF ±10% B 10V	DK98104200
CR08		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CR10		4822 126 11568	CER. CHIP 470pF ±10%	DK96471360
CR11		4822 126 13837	CER. CHIP 0.1µF ±10% B 10V	DK98104200
CR12		4822 126 13837	CER. CHIP 0.1µF ±10% B 10V	DK98104200
CR13		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CR14		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CR15		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CR16		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CR17		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CR18		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CR20		5322 126 11583	CER. CHIP 0.01µF ±10% B 25V	DK96103200
CR21		5322 126 11583	CER. CHIP 0.01µF ±10% B 25V	DK96103200
CR22				
⟩		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CR25				
CR26		4822 126 11703	CER. CHIP 0.01µF +80%-20%	DK98103300
CR27		4822 126 11703	CER. CHIP 0.01µF +80%-20%	DK98103300
CR28		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CR29		4822 126 11687	CER. CHIP 0.1µF +80%-20%	DK98104200
CR30		5322 126 11578	CER. CHIP 1000 ±10% B 50V	DK98102000
			P604-CAPACITORS (COMMON)	
CR88			PLASTIC FILM CAPACITOR	
			±5% 50V : CE31 CE32 CE41	
			CH01-CH04 CH13 CH25	
			CH51-CH54 CH63 CH75	
			CJ01-CJ04 CJ09 CJ10	
			CJ51-CJ54 CJ71-CJ74 CK09	
			CK10 CR19	
			P604-RESISTORS	
R601		4822 051 30105	CHIP 1MΩ ±5% 1/16W	NN05105610
R602		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
R603		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
R604		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
R605		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
R606		4822 051 30223	CHIP 22kΩ ±5% 1/16W	NN05223610
R651		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
R652		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
R653		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
R654		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
R655		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
R656		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
R657		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
R659		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
R661		4822 051 30223	CHIP 22kΩ ±5% 1/16W	NN05223610
R662		4822 117 12995	CHIP 47kΩ ±5% 1/16W	NN05473610
R663		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
R683		4822 117 12995	CHIP 47kΩ ±5% 1/16W	NN05473610
R684		4822 051 30479	CHIP 47Ω ±5% 1/16W	NN05470510
R685		4822 051 30479	CHIP 47Ω ±5% 1/16W	NN05470510
R686		4822 051 30479	CHIP 47Ω ±5% 1/16W	NN05470510
R687		4822 051 30474	CHIP 470kΩ ±5% 1/16W	NN05474610
R689		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
R691		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
R692		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
R694		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
R695		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
R697		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RD01		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RD05		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RD07		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RD61				
⟩		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RD66				
RD92		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RD94		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RE01		4822 051 30561	CHIP 560Ω ±5% 1/16W	NN05561610
RE02		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RE03		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE04		4822 116 83211	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RE05		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE06		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE07		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RE08		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RE10		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE11		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RE12		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE13		4822 051 30151	CHIP 150Ω ±5% 1/16W	NN05151610
RE14		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RE15				
⟩		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE18				
RE19		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE20		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE21		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RE22		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RE23		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE24		4822 051 30332	CHIP 3.3kΩ ±5% 1/16W	NN05332610
RE25		4822 117 12902	CHIP 8.2kΩ ±5% 1/16W	NN05822610
RE31		4822 051 30392	CHIP 3.9kΩ ±5% 1/16W	NN05392610
RE32		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RE33		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RE34		4822 051 30223	CHIP 22kΩ ±5% 1/16W	NN05222610
RE35		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE41		4822 051 30223	CHIP 22kΩ ±5% 1/16W	NN05222610
RE42		4822 051 30683	CHIP 68kΩ ±5% 1/16W	NN05683610
RE43		4822 051 30121	CHIP 120Ω ±5% 1/16W	NN05121610
RE44		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RE45		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE46		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE47		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RE48		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RE49		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RE50		4822 117 12139	CHIP 22Ω ±5% 1/16W	NN05220610
RE51		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RE52		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE63		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE64		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE65		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RE67		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RE68		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RH01				
§		4822 116 83211	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RH12				
RH13				
§		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH19				
RH21		4822 051 30152	CHIP 1.5kΩ ±5% 1/16W	NN05152610
RH22		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH23		4822 051 30123	CHIP 12kΩ ±5% 1/16W	NN05123610
RH24		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RH25		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RH26				
§		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH32				
RH34		4822 051 30152	CHIP 1.5kΩ ±5% 1/16W	NN05152610
RH35		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH36		4822 051 30123	CHIP 12kΩ ±5% 1/16W	NN05123610
RH37		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RH38		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RH39		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH40		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH41		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RH42		4822 051 30105	CHIP 1MΩ ±5% 1/16W	NN05105610
RH51				
§		4822 116 83211	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RH62				
RH63				
§		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH72				
RH73		4822 051 30123	CHIP 12kΩ ±5% 1/16W	NN05123610
RH74		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RH75		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RH76				
§		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH82				
RH85		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RH86		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH87		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RH88		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RJ01				
§		4822 116 83211	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RJ12				

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RJ13				
§		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RJ16				
RJ17		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RJ18		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RJ19		4822 051 30562	CHIP 5.6kΩ ±5% 1/16W	NN05562610
RJ20		4822 051 30562	CHIP 5.6kΩ ±5% 1/16W	NN05562610
RJ21		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RJ22		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RJ23		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RJ24		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RJ25		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RJ26		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RJ51				
§		4822 116 83211	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RJ62				
RJ71				
§		4822 116 83211	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RJ82				
RK01				
§		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RK04				
RK05		4822 116 83339	CHIP 56Ω ±5% 1/16W	NN05560610
RK06		4822 116 83339	CHIP 56Ω ±5% 1/16W	NN05560610
RK07				
§		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RK18				
RK19				
§		4822 051 30399	CHIP 39Ω ±5% 1/16W	NN05390610
RK22				
RK23		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RK24		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RK31		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RK32		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RK34		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RK35				
§		4822 526 10584	FERRITE CORE	FC90090010
RK37			ZBF503D-00TA	
RR01		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
RR02		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
RR03		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RR04		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RR05		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RR06		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RR07		4822 051 30339	CHIP 33Ω ±5% 1/16W	NN05330610
RR08		4822 051 30339	CHIP 33Ω ±5% 1/16W	NN05330610
RR09		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
RR10		4822 051 30391	CHIP 390Ω ±5% 1/16W	NN05391610
RR12				
§		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RR15				
RR16		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RR17				
§		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RR20				
RR21		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RR22		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RR23		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RR24		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RR25		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
RR27		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RR81				
§		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RR84				
			P604-SEMICONDUCTORS	
D692		4822 130 83715	CHIP DIODE 1SS301 DAN202U	HZ21006000
D693		4822 130 83715	CHIP DIODE 1SS301 DAN202U	HZ21006000

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
DE01		4822 130 10683	CHIP DIODE KV1851-TL00	HZ40003420
DR01		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
DR02		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
DR03		4822 130 80522	CHIP DIODE 1SS300 DAP202U	HZ21008000
QE01		9965 000 01321	IC YSS912 DTS AC-3 DECODER	HC10014640
QE02		9965 000 01322	IC TC7WT241FU	HC007405K0
QE03		9965 000 01323	IC TC7WT126FU	HC007305K0
QE04		9965 000 01324	IC 1M SRAM 8X128K 15NS	HC10088000
QE05		9965 000 01326	IC TC4W32FU OR '2	HC10419050
QE51		4822 209 17013	IC ZR38600 AC-3 THX5.1 DECODER	HC10051990
QE52		9965 000 01338	IC TC7SET04F	HC007205K0
QE91		9965 000 01339	MICROPROCESSOR SURR. FOR THX µPD78018FGAB8	HU300JN50F
QE92		9965 000 01323	IC TC7WT126FU	HC007305K0
QE93		4822 209 32921	IC S-80745AN	HC10048530
QE94		4822 209 12845	IC S-80730SN-DT-X RESET	HC10054530
QD01		9965 000 01319	IC AD1855 DAC 24BIT 96KHz	HC10013840
QD02		9965 000 01319	IC AD1855 DAC 24BIT 96KHz	HC10013840
QD03		9965 000 01319	IC AD1855 DAC 24BIT 96KHz	HC10013840
QD41		9965 000 01319	IC AD1855 DAC 24BIT 96KHz	HC10013840
QD42		9965 000 01319	IC AD1855 DAC 24BIT 96KHz	HC10013840
QD43		4822 209 17526	IC TC160G11AU-1305 : 312020050070	HC10438050
QD44		4822 209 17526	IC TC160G11AU-1305 : 312020050070	HC10438050
QE01				
⟩		4822 130 60669	CHIP TRS. 2SC4081 Q OR R	HX300012A0
QE03			2SC4116 Y OR GR	
QE04		4822 209 14676	IC MC14577C SOP TAPING	HC10065170
QE05				
⟩		4822 130 10698	CHIP TRS. 2SA1586 Y OR GR	HX100012A0
QE07			2SA1576A Q OR R	
QE08		4822 209 83357	IC NJM4560M	HC10029090
QE09		4822 209 17162	IC PM4007A AC-3 RF DEMODULATOR	HC10016690
QE10		4822 209 14864	IC 8X32K SRAM <35NS	HC10076000
QH01		4822 209 91175	IC NJM2114M OP AMP	HC10175090
QH02		4822 209 91175	IC NJM2114M OP AMP	HC10175090
QH03		4822 209 91175	IC NJM2114M OP AMP	HC10175090
QH04		4822 130 61227	DIG.TRS. DTA114ES ETC	8A10001000
QH05		4822 130 43818	TRS. 2SC2878 A B	HT328782A0
QH06		4822 130 43818	TRS. 2SC2878 A B	HT328782A0
QH51		4822 209 91175	IC NJM2114M OP AMP	HC10175090
QH52		4822 209 91175	IC NJM2114M OP AMP	HC10175090
QH53		4822 209 91175	IC NJM2114M OP AMP	HC10175090
QJ01		4822 209 91175	IC NJM2114M OP AMP	HC10175090
QJ02		4822 209 91175	IC NJM2114M OP AMP	HC10175090
QJ51		4822 209 91175	IC NJM2114M OP AMP	HC10175090
QJ71		4822 209 91175	IC NJM2114M OP AMP	HC10175090
QK01		9965 000 01317	IC CS5394 2CH ADC 24BIT	HC10003880
QK03				
⟩		4822 209 91175	IC NJM2114M OP AMP	HC10175090
QK06				
QR01		9965 000 01341	IC CS8414 SPDIF RECEIVER	HC10004880
QR02		9965 000 01342	IC TC74HC151AF	HC71510020
QR03		9965 000 01342	IC TC74HC151AF	HC71510020
QR04		4822 209 30426	IC CMOS 74HC00	HC700000Z0
QR05		4822 209 30426	IC CMOS 74HC00	HC700000Z0
QR06		4822 209 32879	IC TC74HC157A	HC71570520
QR07		4822 209 31568	IC CMOS 74HCU04	HC700400Z0
QR08		4822 209 90909	IC TC7W74FU D-F F	HC10400050
			P604-MISCELLANEOUS	
JE01		4822 267 10603	TERMINAL YKC21-3707	YT02011030
JR01		9965 000 01340	TERMINAL RCA 2P AU BL	YT02021540

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
JR02		4822 218 11487	OPT. CONNECTOR GP1F32R OPTICAL RECEIVER	YJ15000150
JR03		4822 218 11487	OPT. CONNECTOR GP1F32R OPTICAL RECEIVER	YJ15000150
JR04		4822 267 31369	OPT. CONNECTOR GP1F32T OPTICAL OUTPUT	YJ15000090
JR05		4822 290 61638	TERMINAL 14X14 RA 1L1P BL	YT02010790
L601		4822 242 73843	EMI FILTER DSS306-61-F-223Z	FM12223010
L602		4822 242 73843	EMI FILTER DSS306-61-F-223Z	FM12223010
L651		4822 242 73843	EMI FILTER DSS306-61-F-223Z	FM12223010
L691				
⟩		4822 157 10884	EMI FILTER BLM11A221S	FN31000010
L697				
LD01				
⟩		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
LD03				
LD05				
⟩		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
LD07				
LD41		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
LD42		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
LD45		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
LD46		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
LD81				
⟩		4822 242 73843	EMI FILTER DSS306-61-F-223Z	FM12223010
LD86				
LE01		4822 157 70681	CHIP INDUCTANCE 68µH NL322522-680K	LU12683010
LE02		4822 242 10582	L.C. FILTERR SRF=49.2-58MHz B.P.F	FF30286010
LE03		4822 242 73843	EMI FILTER DSS306-61-F-223Z	FM12223010
LE04		4822 242 73843	EMI FILTER DSS306-61-F-223Z	FM12223010
LH01		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
LH02		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
LH51		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
LH52		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
LJ01		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
LJ02		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
LK01		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
LR01		4822 142 60422	PULSE TRANSF. TPS247MN-0386AN	TP41042030
LR02		4822 242 73843	EMI FILTER DSS306-61-F-223Z	FM12223010
X601		4822 242 10851	CRYSTAL 12.288MHz AT-49	JX12013260
X691		4822 242 81727	CERAMIC VIB. CST10.0MTW-TF01 10.0MHz	FQ01005010
XE01		9965 000 01320	CRYSTAL 18.432MHz AT-49	JX18001260
			P704- 3CH POWER-AMP. CIRCUIT BOARD	
			P704-CAPACITORS	
C701		4822 124 90058	ELECT. 47µF M 25V ARA	OA47602550
C702		4822 124 90058	ELECT. 47µF M 25V ARA	OA47602550
C703				
⟩			FILM CAP 470pF ±5% 100V	OF15471540
C706				
C707		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
C708		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C711				
⟆			ELECT. 220μF M 100V RA2	OA22710020
C714				
C715		4822 124 11533	ELECT. 1μF M 100V RA2	OA10510020
C716		4822 124 11533	ELECT. 1μF M 100V RA2	OA10510020
C717		4822 123 30088	MICA 10pF ±0.5pF 250V FE	DF31100520
C718		4822 123 30088	MICA 10pF ±0.5pF 250V FE	DF31100520
C719			ELECT. 4.7μF M 100V RE3	EA47510010
C720			ELECT. 4.7μF M 100V	EA47510010
C727				
⟆		9965 000 60438	FILM CAP 120pF ±5% 100V	CF15121540
C730				
CT01		4822 124 90058	ELECT. 47μF M 25V ARA	OA47622550
CT03			FILM CAP 470pF ±5% 100V	CF15471540
CT05			FILM CAP 470pF ±5% 100V	CF15471540
CT07		9965 000 01040	ELECT. 470μF M 6.3V RA 2	OA47706520
CT11			ELECT. 220μF M 100V RA2	OA22710020
CT13			ELECT. 220μF M 100V RA2	OA22710020
CT15		4822 124 11533	ELECT. 1μF M 100V RA2	OA10510020
CT17		4822 123 30088	MICA 10pF ±0.5pF 250V FE	DF31100520
CT18			ELECT. 4.7μF M 100V	EA47510010
CT27		9965 000 00436	FILM CAP 120pF ±5% 100V	CF15121540
CT29		9965 000 00436	FILM CAP 120pF ±5% 100V	CF15121540
C****			**P704-CAPACITORS (COMMON)**	
			PLASTIC FILM CAPACITOR ±5% 50V : C721-C726 CT21 CT23 CT25	
			P704-RESISTORS	
⚠ R707				
⟆			1.5kΩ ± 5% 1/6W	GG05122160
⚠ R710				
R715		4822 100 12159	TRIM. 100kΩ RH0638CJ4R	RA01040780
⚠ R716		4822 100 12159	TRIM. 100kΩ RH0638CJ4R	RA01040780
⚠ R725				
⟆		4822 052 10569	56Ω 1/6W	GG05560160
⚠ R736				
R743		4822 100 20681	TRIM. 2.2kΩ RH0638CJ3R	RA02220780
R744		4822 100 20681	TRIM. 2.2kΩ RH0638CJ3R	RA02220780
⚠ R749				
⟆		4822 052 10109	10Ω ± 5% 1/4W	GG05100140
⚠ R752				
⚠ R753				
⟆		4822 052 10101	100Ω 1/6W	GG05101160
⚠ R756				
R757				
⟆			JUMPER	75060501P0
R760				
⚠ R761		4822 052 10102	1kΩ ± 5% 1/6W	GG05102160
⚠ R762		4822 052 10102	1kΩ ± 5% 1/6W	GG05102160
⚠ R763				
⟆		4822 052 10229	22Ω 1/6W	GG05220160
⚠ R766				
⚠ R767		4822 116 60319	FUSIBLE 220Ω ± 5% 1/2W	NH05221120
⚠ R768		4822 116 60319	FUSIBLE 220Ω ± 5% 1/2W	NH05221120
R769				
⟆		4822 052 10228	2.2Ω ± 5% 1/6W	GG05022160
R772				
⚠ R773		9965 000 01764	0.10Ω K 5W X2 RGC55 W/TP	BZ10102020
⚠ R774		9965 000 01764	0.10Ω K 5W X2 RGC55 W/TP	BZ10102020
⚠ R775		4822 052 10102	1kΩ 1/6W	GG05102160
⚠ R776		4822 052 10102	1kΩ 1/6W	GG05102160
⚠ R777		4822 050 22202	2.2kΩ ± 5% 1/6W	GG05222160
⚠ R778		4822 050 22202	2.2kΩ ± 5% 1/6W	GG05222160
⚠ R783		4822 116 83929	220Ω ± 5% 1/4W	GG05221140
⚠ R784		4822 116 83929	220Ω ± 5% 1/4W	GG05221140
⚠ R785		4822 053 10109	10Ω 1W	GA05100010
⚠ R786		4822 053 10109	10Ω 1W	GA05100010

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
⚠ RT07				
⟆			1.5kΩ ± 5% 1/6W	GG05152160
⚠ RT09			1.5kΩ ± 5% 1/6W	GG05152160
RT15		4822 100 12159	TRIM. 100kΩ RH0638CJ4R	RA01040780
⚠ RT25		4822 052 10561	560Ω 1/6W	GG05561160
⚠ RT27		4822 052 10561	560Ω 1/6W	GG05561160
⚠ RT29		4822 052 10561	560Ω 1/6W	GG05561160
⚠ RT31		4822 052 10561	560Ω 1/6W	GG05561160
⚠ RT33		4822 052 10569	56Ω 1/6W	GG05560160
⚠ RT35		4822 052 10569	56Ω 1/6W	GG05560160
RT43		4822 100 20681	TRIM. 2.2kΩ RH0638CJ3R	RA02220780
⚠ RT49		4822 052 10109	10Ω ± 5% 1/4W	GG05100140
⚠ RT51		4822 052 10109	10Ω ± 5% 1/4W	GG05100140
⚠ RT53		4822 052 10101	100Ω 1/6W	GG05101160
⚠ RT55		4822 052 10101	100Ω 1/6W	GG05101160
RT57			JUMPER	75060501P0
RT59			JUMPER	75060501P0
⚠ RT61		4822 052 10102	1kΩ ± 5% 1/6W	GG05102160
⚠ RT63		4822 052 10229	22Ω 1/6W	GG05220160
⚠ RT65		4822 052 10229	22Ω 1/6W	GG05220160
⚠ RT67		4822 116 60319	FUSIBLE 220Ω ± 5% 1/2W	NH05221120
RT69		4822 052 10228	2.2Ω ± 5% 1/6W	GG05022160
RT71		4822 052 10228	2.2Ω ± 5% 1/6W	GG05022160
⚠ RT73		9965 000 01764	0.10Ω K 5W X2 RGC55 W/TP	BZ10102020
⚠ RT75		4822 052 10102	1kΩ 1/6W	GG05102160
⚠ RT77		4822 050 22202	2.2kΩ ± 5% 1/6W	GG05222160
⚠ RT83		4822 116 83929	220Ω ± 5% 1/4W	GG05221140
⚠ RT85		4822 053 10109	10Ω 1W	GA05100010
R****			**P704-RESISTORS (COMMON)**	
			CARBON FILM FIXED RES. ±5% 1/6W : R701-R706 R711-R714 R717-R724 R737-R742 R745-R748 R779-R782 R787-R790 RT01 RT03 RT05 RT11 RT13 RT17 RT19 RT21 RT23 RT37 RT39 RT41 RT45 RT47 RT79 RT81 RT87 RT89	
			P704-SEMICONDUCTORS	
D701				
⟆		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D704			JUMPER	75060501P0
⟆				
D712				
D713				
⟆		4822 130 80837	DIODE HSS81	HD20027010
D716				
D717				
⟆		4822 130 60317	ZENER DIODE 5.1V RD5.1J82 MTZJ5.1B	HD30511000
D720				
D721		4822 130 80837	DIODE HSS81	HD20027010
D722		4822 130 80837	DIODE HSS81	HD20027010
DT01		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DT03		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DT05			JUMPER	75060501P0
DT07			JUMPER	75060501P0
DT09			JUMPER	75060501P0
DT11			JUMPER	75060501P0
DT13		4822 130 80837	DIODE HSS81	HD20027010
DT15		4822 130 80837	DIODE HSS81	HD20027010
DT17		4822 130 60317	ZENER DIODE 5.1V RD5.1J82 MTZJ5.1B	HD30511000
DT19		4822 130 60317	ZENER DIODE 5.1V RD5.1J82 MTZJ5.1B	HD30511000
DT21		4822 130 80837	DIODE HSS81	HD20027010

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ1)
⚠ K761				
⟆			TRS. KIT 2SA1360 2SC3423	HK135019C0
⚠ K763			PAIR O OR Y	
⚠ K766				
⟆			TRS. KIT 2SA1837 2SC4793	HK183719C0
⚠ K768			MJ1 RANK	
⚠ K771				
⟆		4822 130 11394	TRS. KIT 2SA1216 2SC2922	HK121619F0
⚠ K773			O OR Y PAIR	
Q701				
⟆		4822 130 42949	TRS. 2SA970	HT109702A0
Q704				
Q705		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
Q706		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
Q707				
⟆		4822 130 43283	TRS. 2SC2705 O OR Y	HT327062A0
Q710				
⚠ Q711		5322 130 61728	TRS. 2SA1360 O OR Y	HT113602A0
⚠ Q712		5322 130 61728	TRS. 2SA1360 O OR Y	HT113602A0
⚠ Q713		5322 130 61737	TRS. 2SC3423 O OR Y	HT334232A0
⚠ Q714		5322 130 61737	TRS. 2SC3423 O OR Y	HT334232A0
Q717		4822 130 43283	TRS. 2SC2705 O OR Y	HT327062A0
Q718		4822 130 43283	TRS. 2SC2705 O OR Y	HT327062A0
Q719		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
Q720		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
⚠ Q721		4822 130 63635	TRS. 2SC4793 O OR Y	HT347932A0
⚠ Q722		4822 130 63635	TRS. 2SC4793 O OR Y	HT347932A0
⚠ Q723		4822 130 63634	TRS. 2SA1837 O OR Y	HT118372A0
⚠ Q724		4822 130 63634	TRS. 2SA1837 O OR Y	HT118372A0
Q729		4822 130 43233	TRS. 2SC2240	HT322402A0
Q730		4822 130 43233	TRS. 2SC2240	HT322402A0
QT01		4822 130 42949	TRS. 2SA970	HT109702A0
QT03		4822 130 42949	TRS. 2SA970	HT109702A0
QT05		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
QT07		4822 130 43283	TRS. 2SC2705 O OR Y	HT327062A0
QT09		4822 130 43283	TRS. 2SC2705 O OR Y	HT327062A0
⚠ QT11		5322 130 61728	TRS. 2SA1360 O OR Y	HT113602A0
⚠ QT13		5322 130 61737	TRS. 2SC3423 O OR Y	HT334232A0
QT17		4822 130 43283	TRS. 2SC2705 O OR Y	HT327062A0
QT19		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
⚠ QT21		4822 130 63635	TRS. 2SC4793 O OR Y	HT347932A0
⚠ QT23		4822 130 63634	TRS. 2SA1837 O OR Y	HT118372A0
QT29		4822 130 43233	TRS. 2SC2240	HT322402A0
			P704-MISCELLANEOUS	
L701		4822 157 70022	AIR COIL SPK CHOCK COIL	ML08010030
L702		4822 157 70022	AIR COIL SPK CHOCK COIL	ML08010030
LT01		4822 157 70022	AIR COIL SPK CHOCK COIL	ML08010030
⚠ S701		9965 000 01765	CIRCUIT BREAKER TEMP-SW 120DEG. OHD3-120B	FR31200020
⚠ S702		9965 000 01765	CIRCUIT BREAKER TEMP-SW 120DEG. OHD3-120B	FR31200020
			P754- 2CH POWER-AMP. CIRCUIT BOARD	
			P754-CAPACITORS	
C861		4822 124 90354	ELECT. 100µF 16V	OA10701620
C862		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
C871		4822 124 90354	ELECT. 100µF 16V	OA10701620
C872		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
C881		4822 124 90354	ELECT. 100µF 16V	OA10701620
C882		4822 126 10935	ELECT. 100µF M 6.3V	EJ10700610
CN01		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CN02		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CN03		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CN04		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ1)
CN05		4822 124 90354	ELECT. 100µF 16V	OA10701620
CN06		4822 124 90354	ELECT. 100µF 16V	OA10701620
CN07		4822 124 41543	ELECT. 1µF 50V	OA10505020
CN08		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CN09		4822 124 90353	ELECT. 100µF 10V	OA10701020
CN10		4822 124 90362	ELECT. 22µF 50V	OA22505020
CN11		5322 124 21731	ELECT. 10µF 50V	OA10505020
CN12		4822 124 41539	ELECT. 47µF 16V	OA47601620
CN13		4822 124 90354	ELECT. 100µF 16V	OA10701620
CN14		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620
CN15		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CN16		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CN17		4822 124 12389	ZLECT. BP 47µF M 16V	EQ47601630
CP01		4822 124 90058	ELECT. 47µF M 25V ARA	OA47602550
CP02		4822 124 90058	ELECT. 47µF M 25V ARA	OA47602550
CP03				
⟆			FILM CAP 470pF ±5% 100V	OF15471540
CP06				
CP07		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CP08		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CP11				
⟆			ELECT. 220µF M 100V RA-2	OA22710200
CP14				
CP15		4822 124 11533	ELECT. 1µF M 100V RA2	OA10510020
CP16		4822 124 11533	ELECT. 1µF M 100V RA2	OA10510020
CP17		4822 123 30088	MICA 10pF ±0.5pF 250V FE	DF31100520
CP18		4822 123 30088	MICA 10pF ±0.5pF 250V FE	DF31100520
CP19			ELECT. 4.7µF M 100V	EA47510010
CP20			ELECT. 4.7µF M 100V	EA47510010
CP27				
⟆		9965 000 60438	FILM CAP 120pF ±5% 100V	OF15121540
CP30				
			P754-CAPACITORS (COMMON)	
⟆⟆⟆			PLASTIC FILM CAPACITOR ±5% 50V ; CP21-CP26	
			P754-RESISTORS	
⚠ R881		4822 050 21021	100Ω ±5% 1/4W	GG05101140
⚠ RN04		4822 050 21503	15kΩ ±5% 1/2W	GG05153120
⚠ RN08		4822 050 23303	33kΩ ±5% 1/4W	GG05333140
⚠ RN15		4822 052 10109	10Ω ±5% 1/8W	GG05100160
⚠ RN44		4822 053 10221	220Ω ±5% 1W	GA05221010
⚠ RN45		4822 053 10331	330Ω ±5% 1W	GA05331010
⚠ RN46		4822 053 10331	330Ω ±5% 1W	GA05331010
⚠ RP07				
⟆			1.5kΩ ±5% 1/6W	GG05152160
⚠ RP10				
RP15		9965 000 01766	TRIM. 100K	RA01040760
RP16		9965 000 01766	TRIM. 100K	RA01040760
⚠ RP25				
⟆		4822 052 10561	560Ω 1/6W	GG05561160
⚠ RP32				
⚠ RP33				
⟆		4822 052 10569	56Ω 1/6W	GG05560160
⚠ RP38				
RP43		9965 000 01566	TRIM. 2.2kΩ	RA02200760
RP44		9965 000 01566	TRIM. 2.2kΩ	RA02200760
⚠ RP49				
⟆		4822 052 10109	10Ω ±5% 1/4W	GG05100140
⚠ RP62				
⚠ RP63				
⟆		4822 052 10101	100Ω 1/6W	GG05101160
⚠ RP66				
RP67				
⟆			JUMPER	75060501P0
RP80				
⚠ RP81		4822 052 10102	1kΩ ±5% 1/6W	GG05102160
⚠ RP82		4822 052 10102	1kΩ ±5% 1/6W	GG05102160
⚠ RP83		4822 052 10229	22Ω 1/6W	GG05220160

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
▲ RP64		4822 052 10229	22Ω 1/6W	GG05220160
▲ RP65		4822 052 10229	22Ω 1/6W	GG05220160
▲ RP66		4822 052 10229	22Ω 1/6W	GG05220160
▲ RP67		4822 116 60319	FUSIBLE 220Ω ±5% 1/2W	NH05221120
▲ RP68		4822 116 60319	FUSIBLE 220Ω ±5% 1/2W	NH05221120
RP69		4822 052 10228	2.2Ω ±5% 1/6W	GG05022160
RP70		4822 052 10228	2.2Ω ±5% 1/6W	GG05022160
RP71		4822 052 10228	2.2Ω ±5% 1/6W	GG05022160
RP72		4822 052 10228	2.2Ω ±5% 1/6W	GG05022160
▲ RP73		9965 000 01764	0.10Ω K 5W X2 RGC55 W/TP	BZ10102020
▲ RP74		9965 000 01764	0.10Ω K 5W X2 RGC55 W/TP	BZ10102020
▲ RP75		4822 052 10102	1kΩ 1/6W	GG05102160
▲ RP76		4822 052 10102	1kΩ 1/6W	GG05102160
▲ RP77		4822 050 22202	2.2kΩ ±5% 1/6W	GG05222160
▲ RP78		4822 050 22202	2.2kΩ ±5% 1/6W	GG05222160
▲ RP83		4822 116 83929	220Ω ±5% 1/4W	GG05221140
▲ RP84		4822 116 83929	220Ω ±5% 1/4W	GG05221140
▲ RP85		4822 053 10109	10Ω ±5% 1W	GA05100010
▲ RP86		4822 053 10109	10Ω ±5% 1W	GA05100010
			P754-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : RN01-RN03	
			RN05-RN07 RN09-RN15	
			RN17-RN43 RN48 RN49	
			RP01-RP08 RP11-RP14	
			RP17-RP24 RP37-RP42	
			RP45-RP48 RP79-RP82	
			RP89 RP90	
			P754-SEMICONDUCTORS	
D861		4822 130 82421	DIODE 1D3	HD20002710
D871		4822 130 82421	DIODE 1D3	HD20002710
D881		4822 130 82421	DIODE 1D3	HD20002710
D882		4822 130 80132	ZENER DIODE 3.9V RD3.9ESB1 MTZJ3.9A	HD30391000
DN01		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DN02		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DN03		4822 130 82421	DIODE 1D3	HD20002710
DN04		4822 130 82421	DIODE 1D3	HD20002710
DN05				
⟆		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
DN07			30V 0.1A	
DN08		4822 116 21235	VARISTOR PTH9M04BE222TS2F333	HP00004230
DN10		4822 130 80837	DIODE HSS81	HD20027010
DP01				
⟆		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
DP04			30V 0.1A	
DP05				
⟆			JUMPER	75080501P0
DP12				
DP13				
⟆		4822 130 80837	DIODE HSS81	HD20027010
DP16				
DP17				
⟆		4822 130 80317	ZENER DIODE 5.1V RD5.1JB2 MTZJ5.1B	HD30511000
DP20				
DP21		4822 130 80837	DIODE HSS81	HD20027010
DP22		4822 130 80837	DIODE HSS81	HD20027010
▲ K764			TRS. KIT 2SA1360 2SC3423 PAIR O OR Y	HK136019C0
▲ K765			TRS. KIT 2SA1360 2SC3423 O OR Y	HK136019C0
▲ K769			TRS. KIT 2SA1837 2SC4793 MJI RANK	HK183719C0

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
▲ K770			TRS. KIT 2SA1837 2SC4793 MJI RANK	HK183719C0
▲ K774		4822 130 11394	TRS. KIT 2SA1216 2SC2922 O OR Y PAIR	HK121619F0
▲ K775		4822 130 11394	TRS. KIT 2SA1216 2SC2922 O OR Y PAIR	HK121619F0
▲ Q861		4822 209 83824	IC NJM7805FA +5V	HC38905090
▲ Q871		4822 209 83824	IC NJM7805FA +5V	HC38905090
▲ Q881		4822 130 63635	TRS. 2SC4793 O OR Y	HT347932A0
QN01		4822 209 83312	IC TA7317P	HC10042050
QN02		4822 130 42594	DIG.TRS. DTC144ES	BA20002000
QN03		4822 130 42949	TRS. 2SA970	HT109702A0
QN04		4822 130 50526	TRS. 2SD1508 HFE>4000	HT415080A0
QN05		4822 130 42594	DIG.TRS. DTC144ES	BA20002000
QN06		4822 130 50696	TRS. 2SC1627 O OR Y	HT316272B0
▲ QN07		9965 000 01771	IC PQ30RV11	HC36930320
QN08		4822 130 41947	TRS. 2SC5366SP 2SC2458 2SC3311 2SC1740S	HT30001000
QN09		4822 130 41947	TRS. 2SC5366SP 2SC2458 2SC3311 2SC1740S	HT30001000
QN10		4822 130 41947	TRS. 2SC5366SP 2SC2458 2SC3311 2SC1740S	HT30001000
QN11		4822 130 43233	TRS. 2SC2240	HT322402A0
QN12		4822 130 43233	TRS. 2SC2240	HT322402A0
QN13		4822 130 41947	TRS. 2SC5366SP 2SC2458 2SC3311 2SC1740S	HT30001000
QN14		4822 130 42715	TRS. 2SA606SP ETC	HT10001000
QP01				
⟆		4822 130 42949	TRS. 2SA970	HT109702A0
QP04				
QP05		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
QP06		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
QP07				
⟆		4822 130 43283	TRS. 2SC2705 O OR Y	HT327052A0
QP10				
▲ QP11		5322 130 61728	TRS. 2SA1360 O OR Y	HT113602A0
▲ QP12		5322 130 61728	TRS. 2SA1360 O OR Y	HT113602A0
▲ QP13		5322 130 61737	TRS. 2SC3423 O OR Y	HT334232A0
▲ QP14		5322 130 61737	TRS. 2SC3423 O OR Y	HT334232A0
QP15		4822 130 60117	TRS. 2SC3419 Y	HT334191Y0
QP16		4822 130 60117	TRS. 2SC3419 Y	HT334191Y0
QP17		4822 130 43283	TRS. 2SC2705 O OR Y	HT327052A0
QP18		4822 130 43283	TRS. 2SC2705 O OR Y	HT327052A0
QP19		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
QP20		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
▲ QP21		4822 130 63635	TRS. 2SC4793 O OR Y	HT347932A0
▲ QP22		4822 130 63635	TRS. 2SC4793 O OR Y	HT347932A0
▲ QP23		4822 130 63634	TRS. 2SA1837 O OR Y	HT118372A0
▲ QP24		4822 130 63634	TRS. 2SA1837 O OR Y	HT118372A0
▲ QP25		9965 000 01762	TRS. 2SC2922 O OR Y	HT329222A0
▲ QP26		9965 000 01762	TRS. 2SC2922 O OR Y	HT329222A0
▲ QP27		9965 000 01763	TRS. 2SA1216 O OR Y	HT112162A0
▲ QP28		9965 000 01763	TRS. 2SA1216 O OR Y	HT112162A0
QP29		4822 130 43233	TRS. 2SC2240	HT322402A0
QP30		4822 130 43233	TRS. 2SC2240	HT322402A0
			P754-MISCELLANEOUS	
LN01		9965 000 01343	RELAY RELAY MR62-12SR	LY20120510
LP01		4822 157 70022	AIR COIL SPK CHOCK COIL	ML08010030
LP02		4822 157 70022	AIR COIL SPK CHOCK COIL	ML08010030
▲ MN51		9965 000 01770	D.C MOTOR FBA08A12H6 DC FAN 12V	MM01200320
▲ ZN51		9965 000 01772	DC FAN MOTOR UNIT W 3P WIRE	ZK300J0020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			P774-PO-AMP.TR-BLOCK	
			3CH CIRCUIT BOARD	
			P774-SEMICONDUCTORS	
D799		4822 116 21235	VARISTOR PTH9M04BE222TS2F333	HP00004230
Q715		4822 130 60117	TRS. 2SC3419 Y	HT334191Y0
Q716		4822 130 60117	TRS. 2SC3419 Y	HT334191Y0
▲ Q725		9965 000 01762	TRS. 2SC2922 O OR Y	HT329222A0
▲ Q726		9965 000 01762	TRS. 2SC2922 O OR Y	HT329222A0
▲ Q727		9965 000 01763	TRS. 2SA1216 O OR Y	HT112162A0
▲ Q725		9965 000 01763	TRS. 2SA1216 O OR Y	HT112162A0
Q715		4822 130 60117	TRS. 2SC3419 Y	HT334191Y0
▲ QT25		9965 000 01762	TRS. 2SC2922 O OR Y	HT329222A0
▲ QT27		9965 000 01763	TRS. 2SA1216 O OR Y	HT112162A0
			P804-POWER SUPPLY ±15V	
			CIRCUIT BOARD	
			P804-CAPACITORS	
C801		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
C802		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
C803		4822 124 81138	ELECT. 4700µF 25V	OA47802520
C804		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
C805		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10505020
C806		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
C807		4822 124 81133	ELECT. 4700µF 25V	OA47802520
C808		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
C817		5322 124 21731	ELECT. 10µF M 50V	OA10505020
C818		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
			P804-RESISTORS	
RB01			JUMPER	75060501P0
RB02			JUMPER	75060501P0
RB13			100Ω ±5% 1/6W	GD05101160
			P804-SEMICONDUCTORS	
▲ D801		4822 130 83067	DIODE D3SB 20 V=200V IC=3.0A	HE20020290
D802		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
D807		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
▲ Q801		4822 209 70084	IC NJM7812FA +12V 1A	HC38912090
▲ Q806		4822 130 11605	TRS. 2SD1415	HT41415100
			P804-MISCELLANEOUS	
▲ F801	/K,/N,/S	4822 117 10158	1Ω ±5% 1/4W	GG05010140
▲ F801	/U		FUSE T2A 250V TR5 NO.19374	FS20020210
▲ F802	/K,/N,/S	4822 117 10158	1Ω ±5% 1/4W	GG05010140
▲ F802	/U		FUSE T2A 250V TR5 NO 19374	FS20020210
			P854- MAIN+B	
			CIRCUIT BOARD	
			P854-CAPACITORS	
C851		4822 122 30043	CER. 0.01µF +80%-20% E 500V	DK18103560
C852		4822 126 12453	CER. 0.01µF +80%-20% E 500V	DK18103560
▲ C853		9965 000 01773	ELECT. 56000µF 71V X2	EI56907120
C854		4822 126 12453	CER. 0.01µF +80%-20% E 500V	DK18103560
▲ C855	/K,/N,/S	4822 121 43063	FILM 0.22µF ±20% ECQ-U 250V AC UL CSA VDE	DF17224800
C857		4822 124 40769	ELECT. 2.2µF M 50V RA-2	OA22505020
Retek			**P854-RESISTORS (COMMON)** CARBON FILM FIXED RES. ±5% 1/6W : R851-R854	
			P854-SEMICONDUCTORS	
▲ D851		9965 000 01578	DIODE D25XB60 BRIDGE	HE20029290
D853		4822 130 82421	DIODE 1D3	HD20002710
D854		4822 130 82421	DIODE 1D3	HD20002710

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PB04-PRIMARY	
			CIRCUIT BOARD [U] VERSION	
			PB04-CAPACITORS	
CB01	/U	4822 122 33276	CER. 0.01µF ±20% DE7150 F SPARK KILLER	DK17103840
CB02	/U	4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CB03	/U	4822 122 33276	CER. 0.01µF ±20% DE7150 F SPARK KILLER	DK17103840
			PB04-RESISTORS	
RB01	/U		2.2MΩ ±10% 1/2W FOR UL	RC10225820
▲ RB02	/U	9965 000 01761	ROTOR 2.2Ω 7W W/TEMP.FUSE	NQ15022070
▲ RB05	/U	9965 000 01761	ROTOR 2.2Ω 7W W/TEMP.FUSE	NQ15022070
Retek			**PB04-RESISTORS (COMMON)** CARBON FILM FIXED RES. ±5% 1/6W : RB03 RB04	
			PB04-SEMICONDUCTORS	
DB01	/U	4822 130 82421	DIODE 1D3 1A 200V	HD20002710
DB02	/U	4822 130 82421	DIODE 1D3 1A 200V	HD20002710
QB01	/U	4822 130 42682	DIG.TRS. DTA144ES UN4113 47k 47k	BA10002000
QB02	/U	4822 130 60117	TRS. 2SC3419 O OR Y 40V 0.6A PC=1.2W 5W	HT334192A0
			PB04-MISCELLANEOUS	
▲ FB01	/U		FUSE 12A 250V UL CSA MITI NO.314	FS11200440
▲ FB02	/U		FUSE 630mA 250V UL CSA FBM	FS10063360
JB03	/U		JACK 2P AC OUTLET CCT1304-0212	YJ04002040
LB02	/U	4822 280 80773	RELAY VS24MB-NR TV-6 SEMKO LISTED	LY10240240
LB03	/U	4822 280 80773	RELAY VS24MB-NR TV-8 SEMKO LISTED	LY10240240
			PB54-PRIMARY CIRCUIT	
			BOARD [/K, /N, /S] VERSION	
			PB54-CAPACITORS	
CB51	/K,/N,/S	4822 122 33276	CER. 0.01µF ±20% DE7150 F SPARK KILLER	DK17103840
CB52	/K,/N,/S	4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CB53	/K,/N,/S	4822 122 33276	CER. 0.01µF ±20% DE7150 F SPARK KILLER	DK17103840
			PB54-RESISTORS	
▲ RB52	/K,/N,/S	9965 000 01761	ROTOR 2.2Ω 7W W/TEMP FUSE	NQ15022070
▲ RB55	/K,/N,/S	9965 000 01761	ROTOR 2.2Ω 7W W/TEMP.FUSE	NQ15022070
Retek			**PB54-RESISTORS (COMMON)** CARBON FILM FIXED RES. ±5% 1/6W : RB53 RB54	
			PB54-SEMICONDUCTORS	
DB51	/K,/N,/S	4822 130 82421	DIODE 1D3 1A 200V	HD20002710
DB52	/K,/N,/S	4822 130 82421	DIODE 1D3 1A 200V	HD20002710
QB51	/K,/N,/S	4822 130 42682	DIG.TRS. DTA144ES UN4113 47k 47k	BA10002000
QB52	/K,/N,/S	4822 130 60117	TRS. 2SC3419 O OR Y 40V 0.6A PC=1.2W	HT334192A0

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PB54-MISCELLANEOUS	
▲ FB51	/K,/N,/S	4822 070 36302	FUSE T6.3A 250V BS LISTED	FS10630850
▲ FB52	/K,/N,/S	4822 070 32001	FUSE T200mA 250V BS LISTED	FS10020850
LB52	/K,/N,/S	4822 280 80773	RELAY VS24MB-NR TV-8 SEMKO LISTED	LY10240240
LB53	/K,/N,/S	4822 280 80773	RELAY VS24MB-NR TV-8 SEMKO LISTED	LY10240240
			PB74- POWER SW CIRCUIT BOARD	
CB71		4822 122 33276	CER. 0.01µF ±20% DE7150 F SPARK KILLER	DK17103840
▲ SB71		9965 000 01777	PUSH SWITCH SDDLB1 POWER TV-5	SP01012460
			PL04-CVBS VIDEO SELECTOR CIRCUIT BOARD	
			PL04-CAPACITORS	
CL01		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL02		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL03		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL04			JUMPER	75060501P0
CL05				
CL09		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL10			JUMPER	75060501P0
CL11				
CL28		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL24		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CL25				
CL31		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL32		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CL33		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CL34		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
CL35		4822 124 41537	ELECT. 220µF M 6.3V RA-2	OA22700620
CL36		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
CL37		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CL38		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
CL39		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
CL40		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
CL41		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CL42		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
CL43		4822 124 41537	ELECT. 220µF M 6.3V RA-2	OA22700620
CL44		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CL46	/K,/N,/S	4822 126 10362	CER. 22pF ±5%	DA15220110
CL47	/K,/N,/S	4822 126 11553	CER. 15pF ±5%	DA15150120
CL48	/U	4822 122 33792	CER. 10pF ±5%	DA15100120
CL49		4822 126 11591	CER. 24pF ±5% CH 50V BLK	DD15240300
CL50		4822 126 10362	CER. 22pF ±5%	DA15220110
CL52		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
CL53		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CL54		4822 124 41537	ELECT. 220µF M 6.3V RA-2	OA22700620
CL55		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
CL56		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL57		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL58		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL59		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CL60		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL61		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CL62		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
CL63		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
CL64		4822 124 41537	ELECT. 220µF M 6.3V RA-2	OA22700620
CL65		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CL66			JUMPER	75060501P0
CL67	/U		CER. 22pF ±5%	DA15220110
CL68		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CL69		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL70		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
CL71				
CL74			JUMPER	75060501P0
CL75		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL79		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
CL80		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
CL81		5322 124 21731	ELECT. 10 UV M 50V RA-2	OA10605020
CL82		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL83		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL84		4822 125 50364	TRIM. 20pF VCT51E	CT12000200
CL86		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CX84		4822 124 22277	ELECT. 470µF M 16V	OA47701620
			PL04-CAPACITORS (COMMON)	
C~~***~~			HIGH DIELECTRIC CONSTANT CER. CAPACITOR ±10% 50V : CL51 CL76 CL77 CL87-CL97[/N,/S]	
C~~***~~			PLASTIC FILM CAPACITOR ±5% 50V : CL78	
			PL04-RESISTORS	
RL01		4822 111 41355	75Ω ±5% 1/6W	GD05750160
RL03		4822 111 41355	75Ω ±5% 1/6W	GD05750160
RL05		4822 111 41355	75Ω ±5% 1/6W	GD05750160
RL07		4822 111 41355	75Ω ±5% 1/6W	GD05750160
RL09		4822 111 41355	75Ω ±5% 1/6W	GD05750160
▲ RV51		4822 050 21021	100Ω ±5% 1/2W	GG05101120
R~~***~~			**PL04-RESISTORS (COMMON)** CARBON FILM FIXED RES. ±5% 1/6W : RL02 RL04 RL06 RL08 RL10-RL15 RL18-RL26 RL28-RL43 RV52 RV53	
			PL04-SEMICONDUCTORS	
DL07		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DV01		4822 130 82421	DIODE 1D3	HD20002710
DV02		4822 130 82421	DIODE 1D3	HD20002710
DV03		4822 130 82421	DIODE 1D3	HD20002710
DV51		4822 130 82421	DIODE 1D3	HD20002710
DV52		4822 130 82421	DIODE 1D3	HD20002710
DV53		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
QL01		9965 000 01371	IC MM1140XF	HC10083550
QL02		4822 209 32928	IC BA7612N	HC10201210
QL03		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210
QL04		4822 209 31527	IC BA7613N	HC10202210
QL05		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210
QL06		4822 209 31527	IC BA7613N	HC10202210
QL07		4822 209 16846	IC NJU3718L	HC10171090
QL08		4822 209 32246	IC NJM2244 3IN SW 75Ω DRIVER	HC10119090
QL09		4822 209 15524	IC OSD LC74761	HC10377030
QL10	/K,/N,/S	4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
QL11	/K,/N,/S	4822 130 61189	DIG.TRS. DTC114TS UN4215 10k	BA20004000
QL12	/K,/N,/S	4822 130 61189	DIG.TRS. DTC114TS UN4215 10k	BA20004000
QL14		4822 209 32246	IC NJM2244 3IN SW 75Ω DRIVER	HC10119090
QL15		4822 130 60588	DIG.TRS. DTC114ES UN4211 10k 10k	BA20001000

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QL16		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001009
QL17		4822 130 60588	DIG.TRS. DTC114ES UN4211 10k 10k	BA20001000
QL18		5322 209 71773	IC TC74HC132AP	HC713205D0
QL19		4822 130 60586	DIG.TRS. DTC114ES UN4211 10k 10k	BA20001000
QV51		4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
QV52		4822 130 63634	TRS. 2SA1837 Q Y	HT116372A0
			PL04-MISCELLANEOUS	
JL01				
⚷		4822 265 31299	TERMINAL 3P RCA PIN JACK YELLOW X 3 AU	YT02030340
JL03				
JL04		4822 265 10729	TERMINAL YKC21-3740	YT02080130
JL05		4822 290 81598	TERMINAL 2P RCA JACK YKC21-3255 GOLD	YT02021130
JL06		4822 290 81638	TERMINAL 14X14 RA 1L1P BL	YT02010790
LL01		4822 157 62822	CHOKE COIL 33μH J	LC13333800
LL02		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
LL03				
⚷			JUMPER	75060501P0
LL08				
LV01		9965 000 01576	RELAY MR82-24USR	LY20240480
LV02		9965 000 01576	RELAY MR82-24USR	LY20240480
LV03		9965 000 01576	RELAY MR82-24USR	LY20240480
XL01	/K,/N,/S	4822 242 73903	CRYSTAL AT49 17.7MHz	JX17001260
XL02		4822 242 80288	CRYSTAL AT49 14.31816MHz	JX14001260
			PL74-AUX INPUT CIRCUIT BOARD	
			PL74-CAPACITORS	
CL75	/N,/S	4822 126 11588	CER. CHIP 470pF ±10%	DK96471300
CL76	/N,/S	4822 126 11588	CER. CHIP 470pF ±10%	DK96471300
CL77	/N,/S	4822 122 33777	CER. CHIP 47pF ±5%	DC95470300
CL78	/N,/S	4822 122 33777	CER. CHIP 47pF ±5%	DC95470300
CL79				
⚷		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CL82				
CL83		4822 124 11947	ELECT. BP 10μF 16V	EQ10601630
CL84			0 Ω 1/4W	GD05000140
CL88			0 Ω 1/4W	GD05000140
CL89		4822 126 11687	CER. CHIP 0.1μF +80%-20%	DK98104200
CL90		4822 126 11687	CER. CHIP 0.1μF +80%-20%	DK98104200
CL91				
⚷			0Ω 1/4W	GD05000140
CL98				
			PL74-RESISTORS	
RL75		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RL76		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RL77		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RL78		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RL79				
⚷		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RL82				
RL83		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RL84		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RL85		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
RL86		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
RL88		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
			PL74-SEMICONDUCTORS	
QL75		4822 209 71451	IC NJM4558M Y	HC10011090
			PL74-MISCELLANEOUS	
JL75		9965 000 01947	TERMINAL RCA JACK 3P & S-TERMINAL AUX	BY04040030

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PM01 HDAM CIRCUIT BOARD	
			PM01-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : RM01-RM06	
			PM01-SEMICONDUCTORS	
DM01				
⚷		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DM05				
QM01		4822 130 42839	F.E.T. FET 2SK369BL	HF203691B0
QM02		4822 130 42839	F.E.T. FET 2SK369BL	HF203691B0
QM03		4822 130 43233	TRS. 2SC2240	HT322402A0
QM04		4822 130 42949	TRS. 2SA970	HT109702A0
QM05		4822 130 42949	TRS. 2SA970	HT109702A0
QM06		4822 130 43233	TRS. 2SC2240	HT322402A0
			PM04- HDAM CIRCUIT BOARD	
			PM04-CAPACITORS	
CM21			JUMPER	75060501P0
CM22			JUMPER	75060501P0
CM25		4822 126 14166	FILM 330pF 100V PP	CF15331540
CM26		4822 126 14166	FILM 330pF 100V PP	CF15331540
CM27		9965 000 01344	FILM 100pF ±5% 100V	CF15101540
CM28		9965 000 01344	FILM 100pF ±5% 100V	CF15101540
CM29			ELECT. 47μF M 16V ARS	OA47601640
CM30			ELECT. 47μF M 16V ARS	OA47601640
CM31		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
CM32		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
			PM04-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : RM21-RM24 RM27-RM40	
			PM04-SEMICONDUCTORS	
DM21		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DM22		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
QM21		4822 130 42949	TRS. 2SA970	HT109702A0
QM22		4822 130 42949	TRS. 2SA970	HT109702A0
QM23		4822 130 43233	TRS. 2SC2240	HT322402A0
QM24		4822 130 43233	TRS. 2SC2240	HT322402A0
QM25		4822 130 43283	TRS. 2SC2705 O OR Y	HT327052A0
QM26		4822 130 43283	TRS. 2SC2705 O OR Y	HT327052A0
QM27		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
QM28		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
QM29			UNIT & H/C NEW HDAM	KH26N1010
QM30			UNIT & H/C NEW HDAM	KH26N1010
			PS04-A-FUNC. PRE SUPPLY CIRCUIT BOARD	
			PS04-CAPACITORS	
C809		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C810		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C811		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C812		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C813		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C814		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C815		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C816		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C819		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C820		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C821		9965 000 01351	ELECT. 13000μF M 16V RE3	EA13901670
C824		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C825		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C826		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C827		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C828		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK16103310
C830		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
C832		9965 000 01352	ELECT. 470µF 63V	EA47706310
C833		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
C834		4822 124 80772	ELECT. 47µF M 35V RA-2	OA47603520
C835		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK16103310
C836		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK16103310
C840		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
C841		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK16103310
C843		4822 124 90355	ELECT. 100µF M 50V RA-2	OA10705020
C844				
⟩		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK16103310
C848				
C851		4822 124 41538	ELECT. 220µF 35V	OA22703520
C852		4822 124 40763	ELECT. 2.2µF 50V	OA22505020
CQ01				
⟩		4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
CQ05				
CQ09		4822 124 22277	ELECT. 470µF M 16V	OA47701620
CQ01			JUMPER	75060501P0
CQ02			JUMPER	75060501P0
CQ03			JUMPER	75060501P0
CQ08		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CQ09	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
CQ10	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
CS01				
⟩			ELECT. 22µF M 35V ARS	OA22603540
CS10				
CS11		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CS12		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CS13			ELECT. 22µF M 35V ARS	OA22603540
CS14			ELECT. 22µF M 35V ARS	OA22603540
CS15		5322 124 21731	ELECT. 10µF M 16V RA-2	OA10605020
CS16		5322 124 21731	ELECT. 10µF M 16V RA-2	OA10605020
CS17			ELECT. 22µF M 25V ARS	OA22602540
CS18			ELECT. 22µF M 25V ARS	OA22602540
CS19				
⟩		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK16103310
CS22				
CS23		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620
CS24		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620
CS25				
⟩			ELECT. 22µF M 25V ARS	OA22602540
CS28				
CS29		4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
CS30		4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
CS31		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CS32		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CS33		4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
CS34		4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
CS35		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CS36		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CS55	N/,/S		CER. 47pF ±5% CH 50V BLK	DD15470300
CS56	N/,/S		CER. 47pF ±5% CH 50V BLK	DD15470300
CS57		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620
CS58		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620
CS59				
⟩	N/,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
CS62				
CS63		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK16103310
CS64		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK16103310
CS65				
⟩	N/,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
CS70				
CS73				
⟩	N/,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
CS76				
CS79	N/,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
CS80	N/,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
CS81			JUMPER	75060501P0

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CS82			JUMPER	75060501P0
CS83			JUMPER	75060501P0
CS84		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CS85		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CS86		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620
CS87		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620
CS88		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CS89		4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
CS90		4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
CS93	N/,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
CS94	N/,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
CS97		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK16103310
CS98		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK16103310
CS99		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
			PS04-CAPACITORS (COMMON)	
C***			HIGH DIELECTRIC CONSTANT CER. CAPACITOR ±10% 50V : CS07[/N,/S] CS08[/N,/S] CQ06 CQ07 CS37-CS54[/N,/S] CS71[/N,/S] CS72[/N,/S] CS91[/N,/S] CS92[/N,/S] CS95[/N,/S] CS96[/N,/S]	
C***			ELECTROLYTIC CAPACITOR ±20% : C623 C842 C849	
			PS04-RESISTORS	
⚠ R804		4822 117 10158	1Ω ±5% 1/4W	GG05010140
⚠ R807		4822 053 10102	1kΩ ±5% 1W	GA05102010
⚠ R811		4822 111 90731	FUSE 47Ω ±2% 1/4W	NF02470140
⚠ R817		4822 116 90167	FUSE 100Ω ±2% 1/4W	NF02101140
R816			JUMPER	75060501P0
⚠ RS15		4822 115 90166	FUSE 10Ω ±2% 1/4W	NF02100140
RS96			JUMPER	75060501P0
RS97			JUMPER	75060501P0
			PS04-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : R806 R808-R810 R812 R814-R816 R819 RG01-RG06 RG09-RG14 RG16-RG20 RQ25-RQ30 RS01-RS95 RS98 RS99	
			PS04-SEMICONDUCTORS	
D803				
⟩		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
D806				
⚠ D808		4822 130 83438	DIODE D5SB-20 5A 200V	HE20016290
D810		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
D811		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
D812		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
D813		4822 130 81729	ZENER DIODE MTZJ33D	HD33301000
D814		4822 130 80273	ZENER DIODE 6.2V	HD30621000
D815				
⟩		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
D825				
⚠ D826		4822 130 81247	DIODE 1GWJ43	HD20031050
D827			JUMPER	75060501P0
D828		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
D829		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
DG00		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
DG01		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
DG02		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DG03		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
DS02		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
▲ Q802		9965 000 01354	IC L780S15 +15V 1A	HC39915030
▲ Q803		4822 209 61256	IC NJM7915FA -15V 1A	HC39915090
▲ Q804		4822 130 11605	TRS. 2SD1415	HT41451000
▲ Q805		4822 209 61256	IC NJM7915FA -15V 1A	HC39915090
▲ Q807		4822 209 30258	IC NJM7905FA -5V 1A	HC39905090
▲ Q808		4822 209 73674	IC NJM78067A +6V	HC38906990
Q809		4822 130 60117	TRS. 2SC3419 O OR Y 40V 0.8A PC=1.2W 5W	HT3341924A0
Q810		4822 130 41947	TRS. 2SC2458 2SC1704S 2SC3199 ETC.	HT30001000
▲ Q811		4822 209 15921	IC RESET S-806D-Z SEIKO	HC10077630
Q812		4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
Q813		4822 130 60588	DIG.TRS. DTC114ES ETC	BA20001000
QG01		9965 000 01359	IC TC9459N ELE.VOL	HC10443050
QG02		4822 209 83631	IC NJM4558D-D	HC10008090
QG03		4822 130 63634	TRS. 2SA1837 Q,Y	HT118372A0
QG04		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QG05		4822 130 43818	TRS. 2SC2878 A OR B RANK	HT328782A0
QG06		4822 130 43818	TRS. 2SC2878 A OR B RANK	HT328782A0
QG07		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QS01				
⟆		4822 209 83631	IC NJM4558D-D	HC10008090
QS11				
QS12		4822 209 32552	IC LC78211	HC10309030
QS13		4822 209 32553	IC LC78212	HC10309030
QS14		4822 209 32553	IC LC78212	HC10309030
QS15		4822 209 32552	IC LC78211	HC10309030
QS16		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QS17				
⟆		4822 130 43818	TRS. 2SC2878 A OR B RANK	HT328782A0
QS20				
QS21		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QS22		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QS23		4822 130 43818	TRS. 2SC2878 A OR B RANK	HT328782A0
QS24		4822 130 43818	TRS. 2SC2878 A OR B RANK	HT328782A0
QS25		4822 209 83631	IC NJM4558D-D	HC10008090
QS26		4822 130 90347	PHOTO UNIT PC-817 PHOTO CUPLER 1PAIR	HW10006320
QS27		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
			PS04-MISCELLANEOUS	
JS01		4822 265 10729	TERMINAL 8P RCA PIN JACK WHITE RED AU	YT02080130
JS03		4822 290 61244	TERMINAL 6P RCA PIN JACK WHITE RED AU	YT02060490
JS04		4822 290 61244	TERMINAL 6P RCA PIN JACK WHITE RED AU	YT02060490
JS06		4822 290 61244	TERMINAL 6P RCA PIN JACK WHITE RED AU	YT02060490
JS07		9965 000 01357	TERMINAL 4P RCA RC-51MULTI RC	YT02041260
▲ L801		9965 000 01353	RELAY FTR-F1AA024T	LY20240460
LG01		9965 000 01576	RELAY MR82-24USR	LY20240480

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PT04-SPK. TERMINAL CIRCUIT BOARD PT04-CAPACITORS	
CN51				
⟆	/N,/S	4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK16103310
CN58				
			PT04-SEMICONDUCTORS	
DN51		4822 130 82421	DIODE 1D3	HD20002710
DN52		4822 130 82421	DIODE 1D3	HD20002710
DN53		4822 130 82421	DIODE 1D3	HD20002710
			PT04-MISCELLANEOUS	
JN54	/K,/N,/S	9965 000 01774	SPK. TERMINAL 4P RR BB IEC	YT01040830
JN54	/U		SPK. TERMINAL RR BB	YT01040860
JN55	/K,/N,/S	9965 000 01775	SPK. TERMINAL 4P BB RR IEC	YT01040840
JN55	/U		SPK. TERMINAL BB RR	YT01040850
LN51		4822 280 10305	RELAY VB-16MBU-565-UL3	LY20180020
LN52		4822 280 10305	RELAY VB-16MBU-565-UL3	LY20180020
LN53		4822 280 10305	RELAY VB-16MBU-565-UL3	LY20180020
			PT74-CENTER SPEAKER TERMINAL CIRCUIT BOARD	
CN71	/N,/S	4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
JN71	/K,/N,/S	9965 000 01776	SPK. TERMINAL T6976 2P N B-R	YT01020390
JN71	/U		SPK. TERMINAL 2P B R	YT01020410
			PU04-FRONT FL DISPLAY SWITCH CIRCUIT BOARD PU04-CAPACITORS	
CU01		4822 126 11558	CER. 0.1μF ±20%	DA17104110
CU02		4822 126 11558	CER. 0.1μF ±20%	DA17104110
CU03		4822 126 11558	CER. 0.1μF ±20%	DA17104110
CU04		4822 126 10935	ELECT. 100μF 6.3V	EJ10706610
CU05				
⟆		4822 126 10364	CER. 100pF ±10%	DA16101110
CU08				
CU09				
⟆		4822 126 11558	CER. 0.1μF ±20%	DA17104110
CU12				
CU13			CER. 1000pF ±10%	DK16102300
CU14			100KΩ ±5% 1/6W	GD05104160
R####			**PU04-RESISTORS (COMMON)** CARBON FILM FIXED RES. ±5% 1/6W : RU01-RU09 RU11-RU19 RU21-RU29 RU31 RU34-RU48 RU51-RU63	
			PU04-SEMICONDUCTORS	
DU01				
⟆		4822 130 11363	L.E.D. LT3K44B GREEN 30MA	HI10095320
DU06				
DU07		4822 130 11569	L.E.D. HLMF-K200 RED	HI10005340
DU08		4822 130 11569	L.E.D. HLMF-K200 RED	HI10005340
DU09		4822 130 11569	L.E.D. HLMF-K200 RED	HI10005340
DU10				
⟆		4822 130 11363	L.E.D. LT3K44B GREEN 30MA	HI10095320
DU18				
DU20		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DU21		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
QU01		4822 209 90244	IC UPD16311GC-AB6 FTD DRIVER	HC10283060
QU02		4822 209 16846	IC NJU3718L	HC10171090

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QU03				
⟩		4822 130 41947	TRS. 2SC2458 2SC1740S	HT30001000
QU06			2SC3199 ETC.	
QU07		4822 130 63211	DIG.TRS.	BA10004000
			DTA114TS UN4115 10k	
			PU04-MISCELLANEOUS	
SU01				
⟩		9965 000 00373	PUSH SWITCH	SR01013370
SU26			EVQ11L05R 160GF	
SU32		9965 000 01348	ROTARY SWITCH ROTARY	SR02010070
			ENCODER FOR MASTER	
SU33		9965 000 01349	ROTARY SWITCH ROTARY	SR02010080
			ENCODER FOR INP. SELECT	
VU01		9965 000 01350	DISPLAY UNIT SVA-12MM20	HQS1201920
			FL DISPLAY	
			PU74-STANDBY LED	
			CIRCUIT BOARD	
CU71		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
DU71		4822 130 11569	L.E.D. HLMF-K200 RED	HI10005340
RU71			680Ω ±5% 1/16W	GD05681160
			PU84-IR SENSOR	
			CIRCUIT BOARD	
CU81		4822 122 40588	CER. 0.022μF ±20%	DA17223110
CU82		4822 124 80087	ELECT. 220μF 6.3V	EJ22706610
QU81		4822 209 16157	PHOTO UNIT PNA4855M00XB	HW10005020
			IR SENSOR	
			PU94-GYRO ENCODER	
			CIRCUIT BOARD	
CU91		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
RU91			330Ω ±5% 1/16W	GD05331160
QU91		4822 130 11143	PHOTO UNIT GP1A06 2PHASE	HW10003320
			PHOTO INTERRUPTER	
			PW04-HEADPHONE	
			CIRCUIT BOARD	
CW01		4822 122 40586	CER. 0.01UF	DA17103110
CW02		4822 122 40588	CER. 0.01UF	DA17103110
CW03		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CW04		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
JW01	GOLD	4822 265 11525	H.P. JACK HLJ2307-01-3163	YJ01004330
			PY04-μ-COM	
			CIRCUIT BOARD	
			PY04-CAPACITORS	
CY01		4822 126 11687	CER. CHIP 0.1μF +80%-20%	DK98104200
CY02		4822 124 23056	ELECT. 47μF 10V	EJ47601010
CY04		5322 126 11583	CER. CHIP 0.01pF ±10% B 25V	DK98103200
CY07		4822 126 13303	CER. CHIP 1μF 10V F	DK98105200
CY08		5322 126 11583	CER. CHIP 0.01μF ±10% B 25V	DK98103200
CY09		5322 126 11583	CER. CHIP 0.01μF ±10% B 25V	DK98103200
CY10		5322 126 11583	CER. CHIP 0.01μF ±10% B 25V	DK98103200
CY11		4822 126 11687	CER. CHIP 0.1μF +80%-20%	DK98104200
CY12		4822 126 11687	CER. CHIP 0.1μF +80%-20%	DK98104200
CY13		4822 126 11687	CER. CHIP 0.1μF +80%-20%	DK98104200
CY19		4822 126 11687	CER. CHIP 0.1μF +80%-20%	DK98104200
CY25		5322 126 11578	CER. CHIP 1000 ±10% B 50V	DK98102300
CY26		4822 126 11687	CER. CHIP 0.1μF +80%-20%	DK98104200
CY30		4822 124 11879	BIG ELECT. 1F 5.5V	EX10500530
			DB-5R5D105	
			PY04-RESISTORS	
RY01		4822 051 30479	CHIP 47Ω ±5% 1/16W	NN05470610
RY02		4822 116 83819	CHIP 16kΩ ±5% 1/16W	NN05163610
RY03		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RY04		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY05		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY06				
⟩		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RY11				
RY12		4822 051 30105	CHIP 1MΩ ±5% 1/16W	NN05105610
RY13		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RY14	/K,/S	4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY15	/N,/U	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY16	/K,/N,/S	4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY17	/U	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY18		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY21		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY22	/N,/S	4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY23	/K	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY23	/U	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY24		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RY25		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RY27				
⟩		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RY31				
RY32		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY33		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY34		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY35		4822 051 30221	CHIP 220Ω ±5% 1/16W	NN05221610
RY36		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY37		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY38				
⟩		4822 051 30221	CHIP 220Ω ±5% 1/16W	NN05221610
RY45				
RY46				
⟩		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY56				
RY57		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY58		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RY59		4822 051 30683	CHIP 68kΩ ±5% 1/16W	NN05683610
RY60		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RY64		4822 051 30273	CHIP 27kΩ ±5% 1/16W	NN05273610
RY65		4822 051 30221	CHIP 220Ω ±5% 1/16W	NN05221610
RY66		4822 051 30221	CHIP 220Ω ±5% 1/16W	NN05221610
RY67		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RY68		4822 051 30273	CHIP 27kΩ ±5% 1/16W	NN05273610
			PY04-SEMICONDUCTORS	
DY01				
⟩		4822 130 83715	CHIP DIODE 1SS301 DAN202U	HZ21005000
DY04				
QY01		9965 000 01345	MICROPROCESSOR	HU90UT00F
			TMP93CW40DF MAIN CPU	
QY02		4822 130 41947	TRS. 2SC2458 2SC1740S	HT30001000
			2SC3199 ETC.	
QY03		4822 130 61227	DIG.TRS.	BA10001000
			DTA114ES UN4111 10k 10k	
QY04		4822 130 42594	DIG.TRS.	BA20002000
			DTC144ES UN4213 47k 47k	
QY05		4822 130 61227	DIG.TRS.	BA10001000
			DTA114ES UN4111 10k 10k	
QY06		4822 130 61227	DIG.TRS.	BA10001000
			DTA114ES UN4111 10k 10k	
QY07		4822 130 60588	DIG.TRS.	BA20001000
			DTC114ES UN4211 10k 10k	
QY08		4822 130 61227	DIG.TRS.	BA10001000
			DTA114ES UN4111 10k 10k	
QY09		4822 130 60588	DIG.TRS.	BA20001000
			DTC114ES UN4211 10k 10k	
QY10		4822 130 61227	DIG.TRS.	BA10001000
			DTA114ES UN4111 10k 10k	
QY11		4822 130 41947	TRS. 2SC2458 2SC1740S	HT30001000
			2SC3199 ETC.	

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QY12		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QY13		4822 130 50588	DIG.TRS. DTC114ES UN4211 KRC102M	BA20001000
QY14		4822 130 51227	DIG.TRS. DTA114ES UN4111 KRA102M-AT	BA10001000
QY15		4822 209 12845	IC S-80730SN-DT-X RESET	HC10054530
			PY04-MISCELLANEOUS	
WY01			JUMPER LEAD SMCD-33X100-BDX10-P1.25-S6	YU33100500
XY01		9965 000 01346	SERAMIC VIB. CST20.00MXW0H1 20MHz	FQ02005030
			PY64-CONNECT-1	
			CIRCUIT BOARD	
			PY64-CAPACITORS	
CY61		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CY62		5322 124 21731	ELECT. 10μF M 50V	OA10605020
DY61		4822 130 82421	DIODE 1DS 1A 200V	HD20002710
▲ LY61		9965 000 01353	RELAY FTR-F1AA024T	LY20240450
QY61		4822 130 60117	TRS. 2SC3419	HT33419240
▲ RY61		4822 115 90187	FUSE 100Ω G 1/4W	NF02101140
RY62			10kΩ ±5% 1/16W	GD05103160
RY63			10kΩ ±5% 1/16W	GD05103160
			PZ04-S-VIDEO SELECTOR	
			CIRCUIT BOARD	
			PZ04-CAPACITORS	
CX01		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX02		4822 122 31349	CER. 68pF ±5% 50V	DD15680330
CX03	/K,/N,/S	5322 122 32143	CER. 22pF ±5% 50V	DD15220330
CX04		4822 124 22275	ELECT. 47μF M 10V RA-2	OA47601020
CX05		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CX06		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CX07		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX08	/U	4822 126 10362	CER. 22pF ±5% 50V	DA15220110
CX09		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX10		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX11		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX12		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620
CX13		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX14		5322 124 21731	ELECT. 10μF M 16V RA-2	OA10605020
CX15		5322 124 21731	ELECT. 10μF M 16V RA-2	OA10605020
CX16				
CX19		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CX20		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
CX21			FILM 4700pF	DF15472350
CX22		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CX23		4822 125 50384	TRIM. 20pF VCT51E	CT12000200
CX24		4822 124 41543	ELECT. 1μF 50V RA-2	OA10505020
CX25		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620
CX93				
CX96			JUMPER	75060501P0
CX97		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
CX98		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX99	/U	4822 126 10362	CER. 22pF ±5%	DA15220110
CZ01				
CZ05		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CZ06				
CZ10		4822 124 11947	ELECT. BP 10μF 16V	EQ10601630

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CZ11		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CZ25				
CZ26		4822 124 11947	ELECT. BP 10μF 16V	EQ10601630
CZ27				
CZ33		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CZ34		9965 000 01040	ELECT. 470μF M 6.3V RA-2	OA47700620
CZ35				
CZ42		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CZ43	/K,/N,/S	4822 126 10362	CER. 22pF ±5%	DA15220110
CZ44	/U	4822 122 33792	CER. 10pF ±5%	DA15100120
CZ45	/K,/N,/S	4822 126 11553	CER. 15pF ±5%	DA15150120
CZ46		4822 126 11591	CER. 24pF ±5% CH 50V BLK	DD15240300
CZ47		4822 126 10362	CER. 22pF ±5%	DA15220110
CZ48			CER. 1200pF	DK16122500
CZ49		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
CZ50		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CZ51		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620
CZ52		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
CZ53			JUMPER	75060501P0
CZ54			JUMPER	75060501P0
CZ55				
CZ60		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CZ61		9965 000 01040	ELECT. 470μF M 6.3V RA-2	OA47700620
CZ62		9965 000 01040	ELECT. 470μF M 6.3V RA-2	OA47700620
CZ63		9965 000 01040	ELECT. 470μF M 6.3V RA-2	OA47700620
CZ65		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CZ66		4822 124 41537	ELECT. 220μF M 6.3V	OA22700620
CZ67		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CZ68		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620
CZ69				
CZ77		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CZ78		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620
CZ79		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CZ80		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CZ81		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CZ82		9965 000 01040	ELECT. 470μF M 6.3V RA-2	OA47700620
CZ83		4822 124 11947	ELECT. BP 10μF 16V	EQ10601630
CZ84		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CZ85		9965 000 01040	ELECT. 470μF M 6.3V RA-2	OA47700620
CZ86		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CZ87		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CZ88		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CZ89				
CZ92		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CZ93		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CZ94		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
CZ95		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CZ97		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CZ98		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK18103310
C****			**PZ04-CAPACITOR (COMMON)**	
			HIGH DIELECTRIC CONSTANT CER. CAPACITOR ±10% 50V : CX92	
			PZ04-RESISTORS	
▲ RX11		4822 050 21801	180Ω ±5% 1/4W	GG05181140
RZ06				
RZ15		4822 111 41355	75Ω ±5% 1/6W	GD05750160
RZ22			JUMPER	75060501P0
RZ23			JUMPER	75060501P0

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RZ24				
⟆		4822 111 41355	75Ω ±5% 1/6W	GD05750160
RZ29				
RZ36				
⟆			JUMPER	75960501P0
RZ41				
			PZ04-RESISTORS (COMMON)	
Ritttt			CARBON FILM FIXED RES.	
			±5% 1/6W :	
			RX01-RX10 RX12-RX22	
			RX24-RX29 RZ01-RZ05	
			RZ16-RZ20 RZ30-RZ32 RZ34	
			RZ35 RZ42-RZ48 RZ50 RZ51	
			RZ53 RZ54 RZ56-RZ60 RZ67	
			PZ04-SEMICONDUCTORS	
DX01		4822 130 80321	ZENER DIODE 10V	HD31001000
DZ01				
⟆		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
DZ03			30V 0.1A	
DZ05		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
			30V 0.1A	
DZ19		9965 000 01374	ZENER DIODE MTZ 2.7B 2.7V	HD30271000
QX01				
⟆		4822 130 41947	TRS. 2SC536SP 2SC2458	HT30001000
			2SC3311 2SC1740S	
QX04				
QX05	/K,/N,/S	4822 130 63211	DIG.TRS.	BA10004000
			DTA114TS UN4115 10k	
QX07		4822 130 60588	DIG.TRS.	BA20001000
			DTC114ES UN4211 10k 10k	
QZ01		9965 000 01371	IC MM1140XF	HC10083550
QZ02		4822 209 32928	IC BA7612N	HC10201210
QZ03		9965 000 01371	IC MM1140XF	HC10083550
QZ04		4822 209 32928	IC BA7612N	HC10201210
QZ05		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210
QZ06		4822 209 31527	IC BA7613N	HC10202210
QZ07		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210
QZ08		4822 209 32928	IC BA7612N	HC10201210
QZ09		4822 209 32246	IC NJM2244	HC10119090
			3IN SW 75Ω DRIVER	
QZ10		9965 000 01379	IC NJM2263D	HC10198090
QZ11		4822 209 15524	IC OSD LC74781	HC10377030
QZ12	/K,/N,/S	4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
QZ13	/K,/N,/S	4822 130 61189	DIG.TRS.	BA20004000
			DTC114TS UN4215 10k	
QZ14	/K,/N,/S	4822 130 61189	DIG.TRS.	BA20004000
			DTC114TS UN4215 10k	
QZ16		4822 209 31527	IC BA7613N	HC10202210
QZ17		4822 209 31527	IC BA7613N	HC10202210
QZ18		4822 209 31527	IC BA7613N	HC10202210
QZ19		4822 209 32246	IC NJM2244	HC10119090
			3IN SW 75Ω DRIVER	
QZ20		9965 000 01379	IC NJM2263D	HC10198090
QZ21		4822 130 60588	DIG.TRS.	BA20001000
			DTC114ES UN4211 10k 10k	
QZ22		9965 000 01380	IC 74HC4051	HC70510080
QZ23		4822 209 83088	IC NJM2903D	HC10022080
			DUAL COMPARATOR	
QZ24		4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
QZ25		4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
QZ26		4822 130 41947	TRS. 2SC2458 2SC1740S	HT30001000
			2SC3199 ETC.	
QZ27		4822 130 60588	DIG.TRS.	BA20001000
			DTC114ES UN4211 10k 10k	
QZ28		9965 000 01381	IC 74HC32	HC70320080
QZ29		5322 209 71773	IC TC74HC132AP	HC71320500

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PZ04-MISCELLANEOUS	
JZ01		9965 000 01375	TERMINAL 3P S-TERM.GOLD	YT02030550
JZ02		9965 000 01376	TERMINAL 2P S-TERM.GOLD	YT02021520
JZ03		9965 000 01375	TERMINAL 3P S-TERM.GOLD	YT02030550
JZ04		9965 000 01377	TERMINAL 6P RCA	YT02060640
			COMP.VIDEO GOLD G B R	
JZ05		9965 000 01378	TERMINAL 3P RCA	YT02030540
			COMP.VIDEO GOLD G B R	
LX01		4822 157 62909	CHOKE COIL 22μH	LC12233800
LZ01		4822 157 62922	CHOKE COIL 33μH J	LC13333800
LZ02		4822 242 73843	EMI FILTER DSS306-91-F-233Z	FM12223010
LZ03		4822 242 73843	EMI FILTER DSS306-91-F-233Z	FM12223010
XZ01	/K,/N,/S	4822 242 73993	CRYSTAL AT49 17.7MHz	JX17001280
XZ02		4822 242 80288	CRYSTAL AT49 14.31818MHz	JX14001280